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RESEARCH AND DEVELOPMENT TECHNICAL REPORT
ECOM-0280-3

SIMULATION RESEARCH TO DEVELOP OBJECTIVE METEOROLOGICAL PREDICTION CAPABILITY

SEMI-ANNUAL REPORT

By
William H. Clayton, Principal Investigator
Tom E. Sanford, Co-Investigator

December 1969

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UNITED STATES ARMY ELECTRONICS COMMAND · FORT MONMOUTH, N.J.

Contract DAAB07-68-C-0280

DEPARTMENTS OF METEOROLOGY AND OCEANOGRAPHY
TEXAS A&M UNIVERSITY
College Station, Texas 77843

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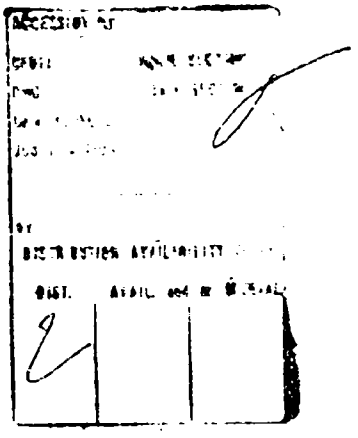

Reports Control Symbol
OSD-1366

Technical Report ECOM-0280-3

December 1969

SIMULATION RESEARCH TO DEVELOP OBJECTIVE METEOROLOGICAL PREDICTION CAPABILITY

Third Semi - Annual Report

15 May 1969 to 16 November 1969

Report No. 3

Contract No. DAAB07-68-C-0280

DA Project No. 1T0.6211.A125.05

Project 582

Reference 69-13-T

Prepared by

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TEXAS A & M RESEARCH FOUNDATION

College Station, Texas

For

U. S. Army Electronics Command, Fort Monmouth, New Jersey

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ABSTRACT

In order to assess further the system of equations currently employed for simulating the atmospheric friction layer, four sets of data, each 12 hours in length, were collected on successive days in August 1969 at Dugway Proving Ground, Utah. Solutions of the equation system for these initial conditions as well as comparisons of the solutions with observed data are contained in this report. The results derived from these solutions corroborate those obtained from the solutions of eleven test cases assembled from data collected with the Dallas Tower Network.

ACKNOWLEDGEMENT

The research reported herein has been performed under Contract DAAB07-68-C-0280, sponsored by the U. S. Army Electronics Laboratories at Fort Monmouth, New Jersey; however, personnel and equipment support for the General Purpose Analog Computer facility utilized in this research is also provided by the Research Council of Texas A&M University.

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I. Evaluation of the System of Equations which Simulate the Lower 1,000 Meters of the Atmosphere

A. Introduction

Evaluation of the present system of equations is being accomplished in three phases. In the initial phase, the equations were evaluated on the basis of reasonable input values rather than actual observed data in order to assess qualitatively the simulation procedures employed, the physical reality of the system of equations, and the proper scaling of these equations on the General Purpose Analog Computer (GPAC). Such assessment utilizing representative mean data gave reasonable results for solutions obtained to the equations on the GPAC; therefore, the second phase of evaluation was initiated. This phase consisted of the application of the system of equations to actually observed data. In order to implement this evaluation, data were collected at Cedar Hill, Texas for a wide range of meteorological environments extending from steady state conditions in spring, summer and winter to rain and fog situations as well as high winds in both winter and summer. This wide range of meteorological environments was chosen in order to test adequately the various circuits involved which solve the present system of equations.

In order to test adequately the system of equations using the present simulation, data of high quality must be employed. For this reason, data from the Dallas Tower Network were selected for establishing the eleven test cases. Several months were required for analyzing the meteorological situations and for pre-

paring the data for solution on the GPAC. This process of data preparation was a lengthy one as all computations were made on a desk calculator. Numerous checking procedures were employed to avoid human errors, but due to the fact that the data were being processed by hand, occasional errors crept into the results.

In order to avoid these human errors as well as to reduce the time required for preparing a case for solution on the GPAC, a computational program was written in Fortran IV for the IBM 365/65 digital program which would prepare the data for input for the GPAC. Initially this program was written in the same manner in which hand computations had been employed previously. There was a two-fold purpose in writing the program in this manner. First the program necessarily, was a lengthy and complex one; therefore, the calculations required to check the results of the digital program would be quite involved and time consuming. Since these calculations previously had been done eleven times, these results were recognized as being the best source for testing the digital program. The data for the first case, Case 1-A, was employed as input to the digital program and the results compared with the hand computed values for this case. The computations were checked to determine which value was correct, the value computed by hand or the value computed by the digital program. Differences in the results obtained by hand computation and the digital program were resolved by making corrections in the digital program or in correcting the hand computed values. When all the results of the hand

computed values and the results obtained by the digital program agreed in every respect then the data for the remaining ten cases was used as input for the program and results computed for these cases. These results then were compared with the hand computed values to further test the validity of the digital program.

The second purpose in writing the program in this manner, was solely to make a check on manual procedures and the manual calculations employed in the preparation of these eleven test cases. This digital computer program was designed specifically for the preparation of data obtained from the Dallas Tower Network and from synoptic charts. This program served mainly for diagnostic purposes and as a stepping-stone to a more general processing digital program. On the basis of the data processed by this program the eleven test cases were solved on the GPAC and the results analyzed.

The programming technique on the GPAC for the solution of these equations allows quite a considerable flexibility in conditions under which the solutions may be obtained. For example, two soil models are available: Soil Model B, and Soil Model A. Soil Model B is a simplified model in which the soil is considered as a homogeneous mass where Soil Model A is a stratified system. The momentum exchange coefficient $K_{m,8}$ and the integral exchange coefficient D_8 may be held fixed throughout the solution interval or they may be allowed to vary with time in accordance with the variations of wind speed, temperature, and moisture

gradients near the surface of the earth. Wind, temperature, and vapor advection may be held constant throughout the solution interval or they may be allowed to vary with time in accordance with the variations of the u and v components of the wind. The surface pressure gradient also may be held fixed during the solution interval or it may be allowed to vary linearily between an initial value and a final value. Any latitude or initial time may be chosen for the solution as well as any time interval. In the solution shown in this report, time intervals of 1, 2, 6, and 12 hours have been chosen.

Results obtained from the solution of the eleven test cases obtained from the Dallas Tower Network have been very encouraging and have warranted further evaluation of the system of equations. For such evaluation, data of a sufficiently high quality must be available for both initial input to the GPAC and verification of the solutions obtained from it. The basic question arose as to what source to employ for collection of data for further testing of the present system of equations. The most likely area for the collection of suitable data appeared to be Dugway Proving Ground since they were well-equipped to collect data from instrumented towers and also had available radiosonde equipment on location. This site, therefore, was chosen because of the mutual interests in obtaining reliable future estimates of winds, temperatures, and vapor pressures within the boundary layer and because of the available facilities which are quite extensive. These facilities in-

cluded a network of instrumented towers for obtaining measurements of the meteorological variables in the lowest 100 meters, radiosonic equipment for obtaining winds, temperatures, and dew-point temperatures up to heights of 1000 meters, and operational weather station provided by the U. S. Air Force with trained analysts and forecasters to prepare the necessary meteorological charts and an electronic data processing system which can provide 30 minute averages of the meteorological variables obtained on the instrumented towers.

In anticipation of the extension of testing of the system of equations for the Dugway area, a more general computer program was recognized to be required for the processing of field data; therefore, the Fortran IV digital program was expanded to a more general form designed to accept data from standard field sources and convert this data into suitable input form for the GPAC and the Low Level Meteorological Simulator (LLMS) and simultaneously provide static check voltages for both simulators.

In order to initiate the mutual cooperative program with Dugway, personal contact with representatives from Dugway was established through mutual familiarization visits. Dugway representatives were briefed on the design, solution procedures, and data input for solution of the system of equations presently employed for simulating the lower kilometer of the atmosphere. On similar familiarization trips by project personnel to Dugway, project personnel were briefed on the facilities available and discussed problems which were

expected to be encountered in data collection and evaluation at Dugway.

In the Spring of 1969, Captain C. L. Hall took responsibility for the Dugway-Texas A&M cooperative effort. Close liaison was maintained between Texas A&M and Dugway Proving Ground and the necessary instrumentation was installed at Dugway for collection of meteorological input data for the GPAC and the LLMS. Cambridge dew-point temperature and dry-bulb temperature instruments were installed in the towers and suitable soil probes were built and installed near the base of the tower. These probes were installed in late spring and tested for uniformity in temperature readings. Very high salt content and resulting high conductivity of the soil caused difficulties in obtaining suitable measurements with the soil probes, but soon the probes were adequately insulated so that uniformity of temperatures were obtained.

On June 3, 13, 20, 27 attempts were made to collect data at Dugway for input to the GPAC and LLMS. In July, Captain Hall visited Texas A&M bringing these data with him for processing; however, the data turned out to be insufficient for the establishment of test cases. The chief difficulty lay in the fact that no reference temperature was available on the tower - only temperature differentials on the tower were available. While Captain Hall was at Texas A&M the various aspects of the project were discussed with him so as to give him a better understanding of the overall view of the project and its purposes. The data collection procedures and analyses, coding of data, and transmittal of the data was thor-

oughly discussed with Captain Hall and the method of solving the problems on the CPAC was demonstrated to him.

At the termination of his visit to Texas A&M, plans were made for Dr. Tom E. Sanford to visit Dugway in late August to assist in data collection activities at Dugway. This period provided the meteorological division at Dugway sufficient time to set up the necessary hardware for collection of the test data.

The normal time interval for averaging data readings at Dugway was 2 1/2 minutes. This time interval was totally inadequate for simulation testing. Therefore, new test specifications were required for the digital data processor employed at Dugway for obtaining time means of the data.

All preparatory work for data collection was completed by the first week in August and Captain Hall notified the project personnel to this effect. During the week of August 10, Dr. Sanford visited Dugway and participated in the collection and processing of data for the establishment of test cases.

B. General Geographical Features and Synoptic Weather Conditions

1. Geographical Features of the Dugway Area

The geographical area in which Dugway is located offers a striking contrast to the geography of the Dallas area. The Dallas area has an elevation of from 700 to 800 ft and the terrain is characterized by slow rolling hills. In contrast, Dugway is located in a relatively flat valley at an elevation in excess of 4,000

fr a grounded by sharp mountain peaks rising in some cases as much as 5,000 ft above the base of the valley. The area is characterized by little vegetation with only a few scrubby trees growing on the mountain slopes. Wind flow is controlled mainly by local effects made up of mountain and valley breezes; therefore, winds are highly variable in both speed and direction. The soil has a high salt content and is covered with a fine coating of loess. This very fine dust shifts easily with the winds and piles up in dunes which slowly move across the soil surface.

2. Prevailing Synoptic Weather Conditions

Synoptic conditions that prevailed during the time data was collected were rather static. On August 12, a weak cold front approached Dugway from the northwest. A frontal passage occurred at approximately 0800 MDT. The front was preceded by overcast conditions accompanied by light rain showers scattered throughout the area. These rain showers preceded the front and the sky cleared rapidly from 0900 to 1200 MDT. A weak high pressure area moved in from the northwest and passed to the northeast of Dugway. The sky was clear and the winds remained light for the next three days. A weak ridge orientated north-northeast over Utah at 700 millibars slowly moved toward the area. The high pressure center moved over Utah and into southwestern Colorado. The last three days of observation were characterized by weather which was clear and winds which were light and variable, rather typical static summertime conditions.

C. Data Collection and Processing

In order that project requirements be understood by Dugway personnel, a technical manual was prepared that specified the type of data to be collected for evaluation under the present system of equations and which outlined the manner in which these data were to be coded and transmitted to Texas A&M. This manual is Technical Report ECOM-02286-F2, Final Report, Volume II, Project 459, Contract No. DA28-043AMC-02286E. It covers all phases of data collection and preparation procedures required for processing the data and transmitting it to Texas A&M. This manual outlines data preparation procedures for input data to the modified Fortran IV IBM 360/65 data preparational program for the GPAC.

This modified digital program, F2, was designed with operational aspects in mind. The program has been designed to be as flexible as possible in handling given input data. These data may occur in different units and at any heights. For example, heights may be reported in meters, inches, or feet; wind speeds in knots, miles per hour, or meters per second; and temperature in degrees Centigrade or degrees Fahrenheit. Atmospheric moisture content may be reported in terms of the dew-point temperature, the vapor pressure, or the relative humidity. The values of each of these variables may be accepted for up to 12 levels.

In accordance with the procedures outlined in this manual, data were collected at Dugway on four successive days for a continuous 12 hr period at hourly intervals. All observations were

taken in the daylight hours extending from 0600 to 1800 MDT. In addition, upper air observations were provided by Rawinsonde observers who collected data at 0600 hours, 0700, 0800, 1200, and 1800 hours for verifications of the simulations at 1, 2, 6, and 12 hour time intervals. The Rawinsonde site was located approximately 12 miles from the site of the instrumented tower. In order to support these observation and complete the input data, the air weather service detachment personnel stationed at Dugway plotted and analyzed all of the synoptic charts required to complete the cases and extracted the data from these charts. Although these data were not ideal input values for the LLMM they were accepted as sufficient for the establishment of test cases. These 30 minute averages of wind speed and direction were taken at seven levels on instrumented towers. Dry-bulb and dew-point temperature were obtained at two levels on the tower. The averaging period began 15 minutes before the hour and ended 15 minutes after the hour.

Some data processing was done, however by project personnel. The major part of this processing consisted of the extraction of soil temperatures from Esterline-Angus strip charts and the computation of the 30 minute averages of these temperatures. Of course, this processing introduces some subjectivity into the data collection and processing but hopefully the degree of subjectivity is not significant. After data collection had terminated and all hand processing was completed the data was punched into IBM punch cards for input to the F2 IBM 360/65 digital program which computes in-

put values for the GPAC and LLMS. These four days of test data not only provided tests for the LLMM but also provide data for testing the P2 digital program in an operational sense. The LLMM was then placed on the GPAC in order to compute solutions for 1, 2, 6, and 12 hours for these four data sets. The following pages of this report contain the solutions obtained on the GPAC for these four data sets and their comparisons with the data observed on these four days at Dugway.

Soil temperature measurements were made at 3 cm, 12.5 cm, 25, 50, 100, and 200 cm depth and were recorded on strip charts. All other data taken from the instrumented towers were collected by the electronic data processing unit at Dugway. This unit also computed 30 minute averages of winds, temperatures, and vapor pressures observed on the towers. This averaging process reduced almost to the minimum data processing accomplished by hand. The fundamental idea in these tests was that data would be collected and processed independent of project personnel in order to provide complete objectivity on their part.

D. General Purpose Analog Computer Solution Formats

In order to evaluate the effects of particular solution circuits of the LLMM each case was solved for 1, 2, 6, and 12 hr time intervals under a variety of assumptions. The data for each case is presented in three parts: a tape log which contains the tape number, forecast interval, and conditions under which the solution was run and any modifying assumptions which were necessary to solve the equations

with the presently scaled model; a set of initial conditions giving the initial input values of the variables for comparison data collected for 1, 2, 6, and 12 hrs after the initial time; and results of the GPAC solutions. Abbreviated headings are used for the columns in the tape log. In order to understand these headings, refer to Table 1, Page 19. The first column in this table shows the individual tape numbers. The second column contains the time interval for the solutions expressed in hours. Column three, headed SM, refers to the soil model that is selected for the solution. Two choices are available: Soil Model A, the stratified soil model; or Soil Model B, the simplified model. The column headed $K_{m,8}$ is the momentum exchange coefficient at 8 m. This column may contain either an F or a V. F indicates that the initial value of $K_{m,8}$ is set into the $K_{m,8}$ amplifier and is held constant throughout the solution period. The letter V in this column indicates that the momentum exchange coefficient varies with the wind and the surface temperature and vapor pressure gradients. Similarily, the column headed D_8 contains either an F or a V. The F indicates that the integral exchange coefficient D_8 is held fixed at the initial value throughout the solution period. The letter V in this column indicates that the integral exchange coefficient is allowed to vary with the wind at 8 m and the temperature and vapor pressure gradients between the surface and 8 m. The column headed SCG represents the high contour gradient of the surface pressure level. This column may contain either an A or an F. An A in this column indicates that the surface contour grade is allowed to vary

from an initial value linearily to a final value. An F in this column indicates that the surface contour gradient is held fixed throughout the solution interval at its initial value. The column headed ADV indicates the manner in which the advection is applied during the solution. Either an N or an F may appear in this column. An F in this column indicates that the advection of wind, temperature, and vapor pressure is held fixed at the initial value throughout the solution period. An A indicates that the gradients of the wind, temperature, and vapor pressure are held fixed throughout the solution period at their initial values but that the advection is allowed to vary with the wind. The column headed GEO may contain either an O or an I. An I in this column indicates that the wind vector at the 1000 m level is coupled to the geostrophic wind. An O in this column indicates that the 1000 m level is not coupled to the geostrophic wind. Any non-normal conditions under which a particular tape was run is indicated in the remarks column unless it applies to the case as a whole. In that event pertinent remarks occur in the following paragraphs.

Following the tape log are two pages which contain the initial conditions for the particular case. The initial soil temperature profile, the soil parameters, the radiation parameters, the local time, and the horizontal gradients of temperature and vapor pressure are shown on the first page. The second page contains the initial profiles of wind, temperature, and vapor pressure from 8 m to 1000 m height and the wind advection terms alpha and beta at 200, 600, and

1000 m. The surface contour gradient terms at the initial time, indicated as 0 hr and the four forecast hours of 1, 2, 6, and 12 are also given on the second page. The azimuth angle for the surface contour gradient terms is measured clockwise from true north and the magnitude of the surface contour gradient is given in feet per 100 km.

Four pages of comparison data follow the two pages containing the initial conditions. These four pages contain the comparison data for 1, 2, 6, and 12 hrs after the initial time. Vertical profiles of the east-west and north-south components of the wind indicated respectively as u and v are given for heights from 8 m through 1000 m. In addition, the geostrophic value is shown. Temperature profiles are given for 2 m through 1000 m, and vapor pressure profiles for 8 m through 1000 m. Soil temperature measurements are given at all model levels from 3 cm below the soil surface, indicated by a minus zero point, to a depth of -2 m. On these sheets the surface shearing stress τ_o, the net radiation R_n, the surface convective heat flux $q_{c,o}$, and the surface exaporative heat flux $q_{e,o}$, and the soil heat flux $q_{s,o}$, and the integrated evapotranspiration E are not measured inputs so their values are indicated by XXXX.

The remaining pages for a particular data set are the GPAC output solutions obtained for the 1, 2, 6, and 12 hr periods. Three pages contain a data set of four tapes. The first page contains the velocity components; the second page, the air temperature and vapor pressure; and, the third page contains various miscellaneous variables such as soil temperature, the wind speed at 2 and 8 m, the surface

energy terms, the surface shearing stress and the integrated evapotranspiration. For an explanation of the data sheets for the GPAC output parameters refer to Pages 27 thru 29 which show the 12 hour solutions for Case DPG01 as recorded on tapes 1, 2, 3, and 4. The first line of the first page contains the value of the momentum exchange coefficient at 8 m obtained by the GPAC at the end of the 12 hr solution interval. The next line contains the tape numbers of the four tapes. In this case, tape numbers 1, 2, 3, and 4. Forecast intervals for each tape occurs on the following line in the column in which the tape number appears. In this particular case, tapes 1, 2, 3, and 4 all are solutions for 12 hr intervals. Note that the value for the momentum exchange coefficient at 8 m, indicated by a K, the tape number, and the forecast intervals are shown centered between two columns which appear below the forecast interval. These two columns are headed GPAC and DIFF. The column headed GPAC contains the solution values obtained on the GPAC and the second column, headed DIFF, is the algebraic difference between the GPAC value and the value given in the comparison data. The column to the extreme left contains the applicable level for the particular variables expressed in meters. For the u and v wind components, GEO again refers to the geostrophic value. In the solutions of the winds, if the value obtained by the GPAC falls in a different quadrant from that shown in the comparison data an asterisk follows the GPAC value. Positive values of the u components of wind indicate that the wind is blowing from west to east. Negative values of the u component

indicate that the wind is blowing from east to west. Similarily, positive values of the v component indicate that the wind is blowing from south to north and negative values of the v component indicate that the wind is blowing from north to south.

On the second and third pages of the GPAC output data, the tape numbers and forecast intervals are repeated by the exchange coefficient values are not. In this case, as with the winds, differences between the solutions obtained on the GPAC and the comparison data are computed by subtracting the comparison data from the GPAC data; therefore, positive values indicate that the GPAC value is greater than the comparison value and negative differences indicate that the GPAC value is less than that of the comparison value. The symbol XXX in the difference column indicates that the differences could not be obtained due to the fact that comparison data are not available.

E. General Purpose Analog Computer Solutions

1. General Remarks

The four initial sets of data collected at Dugway will be referred to as DPG01, DPG02, DPG03, and DPG04.

a. Data Set DPG01

In order to place the GPAC in RESET mode for this case, slight adjustment of some of the input variables was necessary. In particular, the east-west component of the wind at 8 m was changed to 1 m/sec and the north-south component was changed to 4.87 m/sec. In addition, the gradients of vapor pressure were too extreme for

the present scaling; therefore, minor adjustments to the input data were required. The vapor pressure at 100 m was changed from 17.07 mb to 14.88 mb and the vapor pressure at 200 m was changed from 17.69 mb to 16.20 mb.

b. Data Set DPG02

In order to place the GPAC in the RESET mode for this case, the 8 m wind speed had to be increased. The u component of the 8 m wind speed was changed from 2.14 m/sec to 4.13 m/sec. The v component of the 8 m wind speed was increased from 2.38 m/sec to 4.39 m/sec.

c. Data Set DPG03

In order to get the computer in RESET for Data Set DPG03, the u component of the wind at 8 m was increased from 2.85 m/sec to 4.63 m/sec. The v component of the wind speed was increased from 2.66 m/sec to 3.75 m/sec. In addition, the temperature gradient between 8 m and 32 m was too large for the present scaling of the system of equations; therefore, the temperature at 8 m was decreased from 22.5°C to 19.5°C.

d. Data Set DPG04

Similar problems were encountered with Data Set DPG04 as were encountered with the first three data sets. The 8 m wind speed was extremely small and the gradients of the vapor pressure were very large. These extreme values required adjustments in the 8 m wind speed and in the vapor pressure gradient between 32 and 100 m. In particular, the surface u component of the 8 m wind speed was in-

TAPE NO.	FCST INT	SR	KMB DB	SCG	ADV	GEO	REMARKS
1.	12	A	V	A	N	0	NONE
2.	12	A	V	A	N	1	NONE
3.	12	A	V	A	F	1	NONE
4.	12	A	V	A	F	0	NONE
5.	12	B	V	A	F	0	NONE
6.	12	B	V	A	F	1	NONE
7.	12	B	V	A	N	1	NONE
8.	12	B	V	A	N	0	NONE
11.	12	A	V	F	F	1	NONE
12.	12	A	V	F	F	0	NONE
13.	12	B	V	F	F	0	NONE
14.	12	B	V	F	F	1	NONE
25.	12	B	F	F	N	0	NONE
26.	12	B	F	F	N	1	NONE
27.	12	B	F	F	F	1	NONE
28.	12	B	F	F	F	0	NONE
29.	12	A	F	F	F	0	NONE
30.	12	A	F	F	F	1	NONE
31.	12	A	F	F	N	1	NONE
32.	12	A	F	F	N	0	NONE
34.	6	A	V	A	N	0	NONE
35.	6	A	V	A	N	1	NONE
36.	6	A	V	A	F	1	NONE
37.	6	A	V	A	F	0	NONE
38.	6	B	V	A	F	0	NONE
39.	6	B	V	A	F	1	NONE
40.	6	B	V	A	N	1	NONE
41.	6	B	V	A	N	0	NONE
44.	6	A	V	F	F	1	NONE
45.	6	A	V	F	F	0	NONE
46.	6	B	V	F	F	0	NONE
47.	6	B	V	F	F	1	NONE
58.	6	B	F	F	N	0	NONE
59.	6	B	F	F	N	1	NONE
60.	6	B	F	F	F	1	NONE
61.	6	B	F	F	F	0	NONE
67.	2	A	V	A	N	0	NONE
68.	2	A	V	A	N	1	NONE
69.	2	A	V	A	F	1	NONE
70.	2	A	V	A	F	0	NONE

CASE DPG 1 TAPE LOG

TAPE NO.	FCST INT	SM	KMB D8	SCG	ADV	GEO	REMARKS
71.	2	B	V	A	F	O	NONE
72.	2	B	V	A	F	I	NONE
73.	2	B	V	A	N	I	NONE
74.	2	B	V	A	N	O	NONE
77.	2	A	V	F	F	I	NONE
78.	2	A	V	F	F	O	NONE
79.	2	B	V	F	F	O	NONE
80.	2	B	V	F	F	I	NONE
81.	2	B	V	F	N	I	NONE
82.	2	B	V	F	N	O	NONE
87.	2	A	F	A	F	O	NONE
88.	2	A	F	A	F	I	NONE
100.	1	A	V	A	N	O	NONE
101.	1	A	V	A	N	I	NONE
102.	1	A	V	A	F	I	NONE
103.	1	A	V	A	F	O	NONE
104.	1	B	V	A	F	O	NONE
105.	1	B	V	A	F	I	NONE
106.	1	B	V	A	N	I	NONE
107.	1	B	V	A	N	O	NONE
108.	1	A	V	F	N	O	NONE
109.	1	A	V	F	N	I	NONE
110.	1	A	V	F	F	I	NONE
111.	1	A	V	F	F	O	NONE
112.	1	B	V	F	F	O	NONE
113.	1	B	V	F	F	I	NONE
114.	1	B	V	F	N	I	NONE
115.	1	B	V	F	N	O	NONE

DPG 01 INITIAL CONDITIONS - 0400C 12 AUGUST 1969
(page 1 of 2 pages)

SOIL PARAMETERS

T'_0 = 13.30 °C T'_{-1} = 19.11 °C $\sqrt{\mu\lambda}$ = 0.036 cal/cm^{4}deg^{2}sec

$T'_{-1/8}$ = 24.56 °C T'_{-2} = 18.89 °C Z_o = 2.0 cm

$T'_{-1/4}$ = 25.06 °C λ = .09 cal/cm^{3}deg S_o = .0004 cal/cm^{2}sec mb

$T'_{-1/2}$ = 22.89 °C μ/λ = .0037 cm^2/sec G = 3500. cm^{2}sec deg/cal

RADIATION PARAMETERS

Local Time = 0400 C e'_8 = 13.30 mb F_c = 0.31

ϵ = 0.950 j = 0.26

δ = 15.275 deg ϕ = 40.2 deg m = 0.750

R x 10^5 = 2.31 °C/sec N = 0.40 n = 0.0270 mb$^{-1/2}$

Cloud Class = 3 ψ = 0.975 H = -105.0 deg

HORIZONTAL GRADIENTS

$\frac{\partial e}{\partial x}_{200}$ = 0.57 mb/100 km $\frac{\partial e}{\partial x}_{600}$ = 0.50 mb/100 km $\frac{\partial e}{\partial x}_{1000}$ = 0.42 mb/100 km

$\frac{\partial e}{\partial y}_{200}$ = -0.68 mb/100 km $\frac{\partial e}{\partial y}_{600}$ = -0.58 mb/100 km $\frac{\partial e}{\partial y}_{1000}$ = -0.49 mb/100 km

$\frac{\partial T}{\partial x}_{200}$ = -0.24 °C/100 km $\frac{\partial T}{\partial x}_{600}$ = 0.01 °C/100 km $\frac{\partial T}{\partial x}_{1000}$ = 0.26 °C/100 km

$\frac{\partial T}{\partial y}_{200}$ = 1.19 °C/100 k $\frac{\partial T}{\partial y}_{600}$ = 0.64 °C/100 km $\frac{\partial T}{\partial y}_{1000}$ = 0.09 °C/100 km

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WIND COMPONENTS (m/sec)				TEMPERATURE (°C)		VAPOR PRESSURE (mb)	
u_8	= -0.79	v_8	= 3.72	T_8	= 24.20	e_8	= 13.30
u_{32}	= -0.33	v_{32}	= 4.69	T_{32}	= 24.70	e_{32}	= 12.87
u_{100}	= 4.30	v_{100}	= 5.86	T_{100}	= 21.65	e_{100}	= 17.07
u_{200}	= 7.41	v_{200}	= 2.09	T_{200}	= 20.66	e_{200}	= 17.69
u_{300}	= 7.64	v_{300}	= -1.08	T_{300}	= 21.97	e_{300}	= 17.01
u_{400}	= 7.63	v_{400}	= -1.21	T_{400}	= 21.81	e_{400}	= 16.03
u_{500}	= 7.63	v_{500}	= -1.21	T_{500}	= 21.20	e_{500}	= 16.09
u_{600}	= 7.63	v_{600}	= -1.21	T_{600}	= 20.98	e_{600}	= 14.38
u_{700}	= 7.63	v_{700}	= -1.21	T_{700}	= 20.26	e_{700}	= 13.71
u_{800}	= 7.63	v_{800}	= -1.21	T_{800}	= 19.55	e_{800}	= 13.10
u_{900}	= 7.63	v_{900}	= -1.21	T_{900}	= 18.89	e_{900}	= 12.75
u_{1000}	= 7.63	v_{1000}	= -1.21	T_{1000}	= 18.03	e_{1000}	= 12.13

ADVECTION TERMS (sec^{-1})

$\alpha^1_{200} = 0.26 \times 10^{-5}$	$\alpha^1_{600} = 0.30 \times 10^{-5}$	$\alpha^1_{1000} = 0.34 \times 10^{-5}$
$\beta^1_{200} = 0.24 \times 10^{-5}$	$\beta^1_{600} = 0.26 \times 10^{-5}$	$\beta^1_{1000} = 0.28 \times 10^{-5}$
$\alpha^2_{200} = 0.0 \times 10^{-5}$	$\alpha^2_{600} = 0.0 \times 10^{-5}$	$\alpha^2_{1000} = 0.0 \times 10^{-5}$
$\beta^2_{200} = -2.20 \times 10^{-5}$	$\beta^2_{600} = -1.45 \times 10^{-5}$	$\beta^2_{1000} = -0.70 \times 10^{-5}$

CONTOUR GRADIENT TERMS

	0 hour	1 hour	2 hour	6 hour	12 hour	
Azimuth	273.0	270.0	280.0	300.0	330.0	(deg from North)
Magnitude	21.90	26.12	32.65	65.29	73.46	(ft/100 km)

CASE DPG 1 COMPARISON DATA FROM DUGWAY (1 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEC	0.0	-8.29		
1000	8.36	2.56	17.00	11.41
900	10.27	3.33	17.50	12.20
800	7.83	2.54	18.60	12.96
700	7.30	2.51	19.50	13.75
600	7.25	2.64	20.10	14.22
500	6.63	2.81	20.90	14.98
400	5.79	3.34	21.80	16.09
300	2.83	4.90	22.30	16.84
200	-0.69	5.07	22.10	16.52
100	-2.06	3.56	22.00	17.28
32	1.39	-0.15	24.60	12.62
8	1.00	-0.84	24.60	12.79
2	0.68	0.59	24.00	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)	
-0.0	13.60
-0.125	24.11
-0.250	24.83
-0.500	22.83
-1.000	19.00
-2.000	18.78

WIND SPEED (M/SEC)	
8	1.30
2	0.90

SURFACE SHEAR STRESS
(DYNES/CM SQ.)X10
TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)= 0.20 Q(E,0)= XXXX
R(N)= XXXX Q(S,0)= XXXX
Q(C,0)= XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 1 COMPARISON DATA FROM DUGWAY (2 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-1.80	-10.21		
1000	4.53	-1.76	16.40	9.82
900	4.86	-1.68	17.20	10.23
800	4.86	-1.68	17.90	10.37
700	4.89	-1.59	18.90	11.25
600	4.95	-1.42	19.80	11.80
500	4.62	-0.24	20.50	12.28
400	4.59	0.64	21.40	12.87
300	3.12	1.80	22.10	13.85
200	1.59	2.65	22.50	15.06
100	0.0	2.06	21.70	14.59
32	-3.50	1.20	22.40	14.79
8	-3.40	0.18	22.50	15.18
2	-2.59	-0.23	22.60	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	14.80
-0.125	23.67
-0.250	24.50
-0.500	22.67
-1.000	18.83
-2.000	18.61

WIND SPEED (M/SEC)

8	3.40
2	2.60

SURFACE SHEAR STRESS
(DYNES/CM SQ.)X10
TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(0)=	1.20	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 1 COMPARISON DATA FROM DUGWAY (6 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-10.36	-17.96		
1000	2.11	-5.80	20.60	10.02
900	2.21	-5.76	21.20	10.37
800	1.84	-6.43	22.00	10.59
700	1.60	-7.55	22.60	10.73
600	1.43	-8.11	23.20	11.10
500	1.82	-8.55	24.00	11.33
400	2.53	-9.14	24.70	11.56
300	2.13	-7.42	25.20	11.80
200	1.59	-4.89	26.00	12.12
100	1.11	-2.86	26.60	12.28
32	0.25	-7.30	25.80	10.59
8	0.77	-7.36	26.80	10.44
2	1.19	-5.56	28.00	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	39.70
-0.125	22.50
-0.250	22.89
-0.500	21.78
-1.000	18.06
-2.000	17.89

WIND SPEED (M/SEC)

8	7.40
2	5.70

SURFACE SHEAR STRESS (DYNES/CM SQ.) X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(O)=	5.60	W(E,O)=	XXXX
R(N)=	XXXX	G(S,O)=	XXXX
C(C,O)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 1 COMPARISON DATA FROM DUGWAY (12 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-20.20	-11.66		
1000	1.62	-6.49	18.30	9.42
900	1.73	-6.46	19.20	10.02
800	1.73	-6.46	20.00	10.73
700	2.01	-5.84	20.90	11.48
600	2.11	-5.80	22.00	10.37
500	2.26	-4.62	23.00	9.23
400	2.59	-3.84	24.00	8.19
300	2.72	-3.75	25.10	7.21
200	2.85	-3.65	26.10	6.52
100	2.91	-3.60	27.20	7.47
32	-1.55	-6.21	28.50	8.97
8	-1.00	-6.32	29.20	9.55
2	-0.31	-4.49	30.00	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	39.10
-0.125	24.44
-0.250	23.17
-0.500	21.56
-1.000	17.78
-2.000	17.67

WIND SPEED (M/SEC)

8	6.40
2	4.50

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	1.20	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KTCM SG/SEC)	24144	23709	23869	24534
TAPE NO.	1.0	2.0	3.0	4.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-20.14	0.06	-20.14	0.06	-20.14	0.06	-20.14	0.06
1000	-22.64*	-24.26	-20.44*	-22.06	-20.11*	-21.73	-22.30*	-23.92
900	-20.27*	-22.00	-18.86*	-20.60	-18.58*	-20.31	-20.04*	-21.77
800	-19.00*	-20.73	-17.87*	-19.60	-17.61*	-19.34	-18.80*	-20.53
700	-18.05*	-20.06	-17.07*	-19.08	-16.83*	-18.84	-17.97*	-19.98
600	-17.27*	-19.38	-16.37*	-18.48	-16.15*	-18.26	-17.23*	-19.21
500	-16.53*	-16.79	-15.71*	-17.97	-15.49*	-17.75	-16.51*	-18.63
400	-15.81*	-18.40	-15.05*	-17.64	-14.84*	-17.43	-15.80*	-18.25
300	-15.05*	-17.77	-14.33*	-17.05	-14.13*	-16.85	-14.90*	-17.62
200	-14.14*	-16.99	-13.48*	-16.33	-13.29*	-16.14	-14.01*	-16.86
100	-12.86*	-15.77	-12.27*	-15.18	-12.09*	-15.00	-12.73*	-15.64
32	-11.03	-9.48	-10.52	-8.97	-10.36	-8.81	-10.91	-9.36
8	-8.91	-7.91	-8.50	-7.50	-8.37	-7.37	-8.82	-7.82

V COMPONENT (M/SEC)

LEVEL(MB)	AC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-11.64	0.02	-11.64	0.02	-11.64	0.02	-11.64	0.02
1000	-20.53	-14.04	-19.06	-12.57	-19.03	-12.54	-20.97	-14.48
900	-20.10	-13.64	-19.74	-13.28	-19.60	-13.34	-20.48	-14.02
800	-19.67	-13.21	-19.56	-13.12	-19.67	-13.21	-20.05	-13.59
700	-19.25	-13.41	-19.26	-13.42	-19.40	-13.56	-19.63	-13.79
600	-18.83	-13.03	-18.89	-13.09	-19.00	-13.26	-19.22	-13.42
500	-18.38	-13.76	-18.47	-13.85	-18.97	-14.05	-18.78	-14.16
400	-17.87	-14.03	-17.96	-14.14	-18.20	-14.36	-18.28	-14.44
300	-17.27	-13.52	-17.39	-13.64	-17.63	-13.86	-17.68	-13.93
200	-16.48	-12.63	-16.61	-12.96	-16.86	-13.21	-16.90	-13.25
100	-15.24	-11.64	-15.37	-11.78	-15.62	-12.03	-15.63	-12.03
32	-13.27	-7.06	-13.39	-7.16	-13.61	-7.40	-13.61	-7.40
8	-10.81	-4.49	-10.90	-4.58	-11.09	-4.77	-11.09	-4.77

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	1.0		2.0		3.0		4.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.17	5.87	24.13	5.83	20.56	2.26	20.57	2.27
900	24.07	4.87	24.04	4.84	20.52	1.32	20.51	1.31
800	24.00	4.00	23.97	3.97	20.47	0.47	20.46	0.46
700	23.93	3.03	23.92	3.02	20.43	-0.47	20.42	-0.48
600	23.85	1.85	23.84	1.84	20.37	-1.63	20.37	-1.63
500	23.78	0.78	23.77	0.77	20.34	-2.66	20.33	-2.67
400	23.68	-0.32	23.67	-0.33	20.27	-3.73	20.26	-3.74
300	23.58	-1.52	23.57	-1.53	20.22	-4.88	20.21	-4.89
200	23.41	-2.69	23.41	-2.69	20.13	-5.97	20.12	-5.98
100	23.19	-4.01	23.19	-4.01	20.04	-7.16	20.03	-7.17
32	22.82	-5.68	22.82	-5.68	19.85	-8.65	19.85	-8.65
8	22.39	-6.81	22.41	-6.79	19.63	-9.57	19.63	-9.57
2	21.77	-8.23	21.78	-8.22	19.34	-10.66	19.34	-10.66
0	20.59	XXXX	20.59	XXXX	18.67	XXXX	18.69	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.51	3.09	12.63	3.21	13.59	4.17	13.61	4.19
900	12.81	2.79	12.94	2.92	13.91	3.89	13.92	3.90
800	13.08	2.35	13.19	2.46	14.16	3.43	14.17	3.44
700	13.32	1.84	13.44	1.96	14.41	2.93	14.42	2.94
600	13.53	3.16	13.66	3.29	14.63	4.26	14.63	4.26
500	13.77	4.54	13.91	4.68	14.87	5.64	14.88	5.65
400	13.99	5.80	14.11	5.92	15.08	6.89	15.09	6.90
300	14.23	7.02	14.36	7.15	15.33	8.12	15.33	8.12
200	14.47	7.95	14.61	8.09	15.56	9.04	15.56	9.04
100	14.79	7.32	14.92	7.45	15.84	8.37	15.84	8.37
32	15.07	6.10	15.20	6.23	16.07	7.10	16.07	7.10
8	15.34	5.79	15.47	5.92	16.26	6.71	16.26	6.71
2	15.65	15.65	15.78	15.78	16.43	16.43	16.43	16.43
0	16.25	XXXX	16.37	XXXX	16.82	XXXX	16.81	XXXX

CASE EPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	1.0	2.0	3.0	4.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.62	-17.48	21.63	-17.47	20.66	-16.44	20.66	-16.44
-0.125	22.57	-1.87	22.58	-1.86	22.35	-2.09	22.35	-2.09
-0.250	23.52	0.35	23.53	0.36	23.49	0.32	23.50	0.33
-0.500	22.62	1.06	22.62	1.06	22.62	1.06	22.63	1.07
-1.000	19.19	1.41	19.19	1.41	19.19	1.41	19.19	1.41
-2.000	18.67	1.20	18.68	1.21	18.67	1.20	18.67	1.20

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	14.01	7.61	13.83	7.43	13.90	7.50	14.17	7.77
2	9.18	4.68	9.04	4.54	9.03	5.13	9.86	5.36

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.43	0.23	1.42	0.22	1.42	0.22	1.42	0.22
R(N)	-0.18	XXXX	-0.18	XXXX	-0.24	XXXX	-0.24	XXXX
G(C,0)	-3.11	XXXX	-3.06	XXXX	-1.62	XXXX	-1.65	XXXX
G(E,0)	3.22	XXXX	3.17	XXXX	1.95	XXXX	1.96	XXXX
G(S,0)	-0.29	XXXX	-0.29	XXXX	-0.56	XXXX	-0.56	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	72.34	XXXX	70.10	XXXX	70.90	XXXX	74.30	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	20.20	XXXX	19.70	XXXX	15.00	XXXX	15.10	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KTCM SQ/SEC)	24529	23869	23689	24144
TAPE NO.	5.0	6.0	7.0	8.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-20.14	0.06	-20.14	0.06	-20.14	0.06	-20.14	0.06
1000	-22.31*	-23.93	-20.11*	-21.73	-20.44*	-22.06	-22.64*	-24.26
900	-20.04*	-21.77	-18.58*	-20.31	-18.88*	-20.61	-20.28*	-22.01
800	-18.80*	-20.54	-17.60*	-19.33	-17.88*	-19.61	-19.01*	-20.74
700	-17.88*	-19.89	-16.83*	-18.84	-17.08*	-19.09	-18.06*	-20.07
600	-17.10*	-19.21	-16.14*	-18.25	-16.39*	-18.50	-17.27*	-19.38
500	-16.37*	-18.63	-15.49*	-17.75	-15.72*	-17.98	-16.54*	-18.80
400	-15.66*	-18.25	-14.84*	-17.43	-15.06*	-17.65	-15.82*	-18.41
300	-14.90*	-17.62	-14.12*	-16.84	-14.34*	-17.06	-15.05*	-17.77
200	-14.01*	-16.86	-13.28*	-16.13	-13.49*	-16.34	-14.15*	-17.00
100	-12.73*	-15.64	-12.08*	-14.99	-12.28*	-15.19	-12.87*	-15.78
32	-10.91	-9.36	-10.36	-8.81	-10.53	-8.98	-11.03	-9.48
8	-8.81	-7.81	-8.36	-7.36	-8.51	-7.51	-8.92	-7.92

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-11.64	0.02	-11.64	0.02	-11.64	0.02	-11.64	0.02
1000	-20.97	-14.48	-19.03	-12.54	-19.04	-12.55	-20.52	-14.03
900	-20.48	-14.02	-19.80	-13.34	-19.72	-13.26	-20.08	-13.62
800	-20.05	-13.59	-19.68	-13.22	-19.56	-13.10	-19.66	-13.20
700	-19.63	-13.79	-19.40	-13.56	-19.23	-13.39	-19.24	-13.40
600	-19.22	-13.42	-19.07	-13.27	-18.68	-13.08	-18.82	-13.02
500	-18.78	-14.16	-18.65	-14.03	-18.45	-13.83	-18.38	-13.76
400	-18.27	-14.43	-18.21	-14.37	-17.96	-14.12	-17.86	-14.02
300	-17.68	-13.93	-17.64	-13.89	-17.38	-13.63	-17.26	-13.51
200	-16.89	-13.24	-16.86	-13.21	-16.59	-12.94	-16.47	-12.82
100	-15.63	-12.03	-15.63	-12.03	-15.36	-11.76	-15.23	-11.63
32	-13.61	-7.40	-13.62	-7.41	-13.38	-7.17	-13.26	-7.06
8	-11.09	-4.77	-11.09	-4.77	-10.89	-4.57	-10.80	-4.48

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	5.0	6.0	7.0	8.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.85	2.55	20.86	2.56	24.41	6.11	24.46	6.16
900	20.81	1.61	20.82	1.62	24.34	5.14	24.37	5.17
800	20.76	0.76	20.77	0.77	24.26	4.26	24.29	4.29
700	20.73	-0.17	20.74	-0.16	24.22	3.32	24.23	3.33
600	20.68	-1.32	20.71	-1.29	24.15	2.15	24.16	2.16
500	20.65	-2.35	20.66	-2.34	24.08	1.06	24.09	1.09
400	20.58	-3.42	20.61	-3.39	23.98	-0.02	23.99	-0.01
300	20.54	-4.56	20.58	-4.54	23.91	-1.19	23.91	-1.19
200	20.45	-5.65	20.46	-5.64	23.73	-2.37	23.73	-2.37
100	20.37	-6.83	20.39	-6.81	23.52	-3.68	23.52	-3.68
32	20.21	-8.29	20.21	-8.29	23.16	-5.34	23.16	-5.34
8	20.01	-9.19	20.02	-9.18	22.76	-6.44	22.75	-6.45
2	19.74	-10.26	19.74	-10.26	22.15	-7.85	22.14	-7.86
0	19.12	XXXX	19.11	XXXX	20.98	XXXX	20.98	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	13.75	4.33	13.74	4.32	12.76	3.36	12.65	3.23
900	14.07	4.05	14.06	4.04	13.11	3.09	12.99	2.97
800	14.34	3.61	14.33	3.60	13.37	2.64	13.25	2.52
700	14.59	3.11	14.59	3.11	13.62	2.14	13.49	2.01
600	14.81	4.44	14.80	4.43	13.65	3.48	13.71	3.34
500	15.06	5.83	15.05	5.82	14.09	4.66	13.96	4.73
400	15.27	7.08	15.27	7.08	14.31	6.12	14.17	5.98
300	15.52	8.31	15.51	8.30	14.56	7.35	14.43	7.22
200	15.75	9.23	15.75	9.23	14.81	8.29	14.67	8.15
100	16.04	8.57	16.05	8.58	15.14	7.67	14.99	7.52
32	16.26	7.31	16.27	7.30	15.42	6.45	15.28	6.31
8	16.49	6.94	16.49	6.94	15.71	6.16	15.57	6.02
2	16.66	16.66	16.66	16.66	16.04	16.04	15.89	15.89
0	17.05	XXXX	17.06	XXXX	16.66	XXXX	16.51	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	5.0		6.0		7.0		8.0	
INTERVAL	12HR		12HR		12HR		12HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.95	-17.15	21.94	-17.16	22.83	-16.27	22.83	-16.27
-0.125	23.37	-1.07	23.37	-1.07	23.59	-0.85	23.58	-0.86
-0.250	23.94	0.77	23.94	0.77	23.97	0.80	23.99	0.82
-0.500	22.66	1.10	22.66	1.10	22.66	1.10	22.66	1.10
-1.000	19.30	1.52	19.31	1.53	19.31	1.53	19.30	1.52
-2.000	24.54	6.87	24.54	6.87	24.55	6.88	24.54	6.87

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	14.17	7.77	13.90	7.50	13.83	7.43	14.01	7.61
2	9.91	5.41	9.68	5.18	9.06	4.56	9.20	4.70

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.42	0.22	1.42	0.22	1.43	0.23	1.42	0.22
R(N)	-0.26	XXXX	-0.26	XXXX	-0.19	XXXX	-0.20	XXXX
Q(C,0)	-1.54	XXXX	-1.52	XXXX	-2.98	XXXX	-3.04	XXXX
Q(E,0)	2.09	XXXX	2.08	XXXX	3.32	XXXX	3.37	XXXX
Q(S,0)	-0.81	XXXX	-0.81	XXXX	-0.52	XXXX	-0.52	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	74.30	XXXX	70.90	XXXX	70.02	XXXX	72.28	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	16.60	XXXX	16.30	XXXX	21.30	XXXX	21.60	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KTCM SC/SEC)	164	164	169	174
TAPE NO.	11.0	12.0	13.0	14.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	19.89	-0.30	19.89	-0.30	19.89	-0.30	19.89
1000	-3.91*	-5.53	-5.14*	-10.80	-9.19*	-10.81	-3.92*	-5.54
900	-6.80*	-8.53	-8.43*	-10.16	-8.43*	-10.16	-6.80*	-8.53
800	-6.95*	-8.68	-7.85*	-9.62	-7.89*	-9.62	-6.94*	-8.67
700	-6.77*	-8.78	-7.45*	-9.46	-7.45*	-9.46	-6.77*	-8.78
600	-6.50*	-8.61	-7.03*	-9.14	-7.00*	-9.11	-6.48*	-8.59
500	-6.14*	-8.40	-6.57*	-8.83	-6.57*	-8.93	-6.14*	-8.40
400	-5.76*	-8.35	-6.12*	-8.71	-6.12*	-8.71	-5.76*	-8.35
300	-5.31*	-8.03	-5.62*	-8.34	-5.63*	-8.35	-5.32*	-8.04
200	-4.78*	-7.63	-5.04*	-7.69	-5.05*	-7.90	-4.78*	-7.63
100	-4.01*	-6.92	-4.25*	-7.16	-4.26*	-7.17	-4.01*	-6.92
32	-3.01	-1.47	-3.21	-1.66	-3.23	-1.66	-3.02	-1.47
8	-2.21	-1.21	-2.39	-1.39	-2.39	-1.39	-2.22	-1.22

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.93	4.73	-6.93	4.73	-6.93	4.73	-6.93	4.73
1000	-6.16	0.33	-4.66	1.83	-4.67	1.82	-6.16	0.32
900	-5.77	0.69	-5.25	1.20	-5.27	1.18	-5.78	0.68
800	-5.65	0.60	-5.53	0.93	-5.56	0.90	-5.87	0.58
700	-5.95	-0.11	-5.70	0.13	-5.75	0.11	-5.97	-0.13
600	-6.01	-0.21	-5.80	-0.01	-5.83	-0.03	-6.04	-0.24
500	-6.06	-1.44	-5.89	-1.27	-5.91	-1.30	-6.09	-1.47
400	-6.09	-2.26	-5.92	-2.09	-5.95	-2.12	-6.11	-2.27
300	-6.07	-2.32	-5.91	-2.16	-5.93	-2.18	-6.08	-2.33
200	-5.96	-2.31	-5.82	-2.17	-5.84	-2.19	-5.98	-2.33
100	-5.66	-2.07	-5.52	-1.92	-5.54	-1.94	-5.67	-2.07
32	-5.05	1.15	-4.93	1.27	-4.94	1.27	-5.06	1.14
8	-4.24	2.08	-4.13	2.19	-4.14	2.18	-4.24	2.08

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	11.0		12.0		13.0		14.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.55	2.25	20.57	2.27	20.70	2.40	20.69	2.39
900	20.77	1.57	20.76	1.56	20.95	1.75	20.95	1.75
800	20.88	0.88	20.87	0.87	21.09	1.09	21.08	1.08
700	20.94	0.04	20.95	0.05	21.16	0.26	21.16	0.26
600	20.96	-1.04	20.95	-1.05	21.19	-0.81	21.20	-0.80
500	20.93	-2.07	20.92	-2.08	21.18	-1.82	21.18	-1.82
400	20.88	-3.12	20.87	-3.13	21.14	-2.86	21.14	-2.86
300	20.85	-4.25	20.84	-4.26	21.12	-3.98	21.13	-3.97
200	20.79	-5.31	20.79	-5.31	21.09	-5.01	21.09	-5.01
100	20.84	-6.36	20.83	-6.37	21.15	-6.05	21.17	-6.03
32	20.85	-7.65	20.82	-7.65	21.19	-7.31	21.23	-7.27
8	20.73	-8.63	20.69	-8.51	21.14	-8.06	21.19	-8.01
2	20.33	-9.67	20.30	-9.50	21.01	-8.99	21.05	-8.95
0	19.90	XXXX	19.86	XXXX	20.67	XXXX	20.91	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.45	3.03	12.47	3.05	12.57	3.15	12.54	3.12
900	12.99	2.97	12.99	2.97	13.11	3.09	13.09	3.07
800	13.36	2.63	13.38	2.65	13.53	2.80	13.49	2.76
700	13.71	2.23	13.73	2.25	13.90	2.42	13.87	2.39
600	14.03	3.66	14.06	3.69	14.23	3.86	14.21	3.84
500	14.42	5.19	14.42	5.19	14.61	5.38	14.60	5.37
400	14.78	6.59	14.78	6.59	14.98	6.79	14.97	6.78
300	15.19	7.98	15.20	7.99	15.41	8.20	15.40	8.19
200	15.63	9.11	15.63	9.11	15.85	9.33	15.88	9.36
100	16.32	8.85	16.31	8.84	16.59	9.12	16.61	9.14
32	17.17	8.20	17.13	8.16	17.47	8.50	17.52	8.55
8	18.12	8.57	18.06	8.51	18.56	9.01	18.61	9.06
2	20.46	20.46	19.19	19.19	21.36	21.36	21.61	21.61
0	23.01	XXXX	22.96	XXXX	24.41	XXXX	24.46	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	11.0		12.0		13.0		14.0	
INTERVAL	12HR		12HR		12HR		12HR	
SOIL TEMPERATURE (DEG C)								
LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.28	-17.82	21.25	-17.85	22.66	-16.44	22.70	-16.40
-0.125	22.49	-1.95	22.48	-1.96	23.53	-0.91	23.54	-0.90
-0.250	23.52	0.31	23.52	0.35	23.96	0.79	23.96	0.79
-0.500	22.62	1.06	22.62	1.06	22.66	1.10	22.66	1.10
-1.000	19.19	1.41	19.21	1.43	19.30	1.52	19.31	1.53
-2.000	18.88	1.21	18.88	1.21	24.54	6.87	24.53	6.86
WIND SPEED (M/SEC)								
LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.80	-1.60	4.79	-1.61	4.80	-1.60	4.80	-1.60
2	2.50	-2.00	3.68	-0.82	2.50	-2.00	2.34	-2.16
SURFACE ENERGY TERMS (LY/SEC)X1000								
PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.42	0.22	1.42	0.22	1.42	0.22	1.42	0.22
R(N)	-0.28	XXXX	-0.28	XXXX	-0.36	XXXX	-0.36	XXXX
Q(C,0)	-0.00	XXXX	0.0	XXXX	-0.00	XXXX	0.01	XXXX
Q(E,0)	0.11	XXXX	0.11	XXXX	0.14	XXXX	0.14	XXXX
Q(S,0)	-0.39	XXXX	-0.39	XXXX	-0.51	XXXX	-0.51	XXXX
SURFACE SHEAR STRESS (DYNES/CM SQ)X10								
PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.14	XXXX	0.12	XXXX	0.16	XXXX	0.14	XXXX
INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100								
PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	11.70	XXXX	11.70	XXXX	13.30	XXXX	13.50	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1884	1884	1884	1884
TAPE NO.	25.0	26.0	27.0	28.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	19.89	-0.30	19.89	-0.30	19.89	-0.30	19.89
1000	-11.22*	-12.84	-4.72*	-6.34	-3.31*	-4.93	-9.73*	-11.35
900	-11.31*	-13.04	-10.17*	-11.90	-8.20*	-9.93	-9.82*	-11.55
800	-11.15*	-12.88	-10.82*	-12.55	-9.14*	-10.87	-9.84*	-11.57
700	-10.88*	-12.89	-10.74*	-12.75	-9.40*	-11.41	-9.78*	-11.79
600	-10.54*	-12.65	-10.47*	-12.58	-9.41*	-11.52	-9.63*	-11.74
500	-10.14*	-12.40	-10.10*	-12.36	-9.27*	-11.53	-9.41*	-11.67
400	-9.67*	-12.26	-9.65*	-12.24	-9.01*	-11.60	-9.10*	-11.69
300	-9.12*	-11.84	-9.11*	-11.83	-8.63*	-11.35	-8.69*	-11.41
200	-8.43*	-11.28	-8.42*	-11.27	-8.08*	-10.93	-8.12*	-10.97
100	-7.45*	-10.36	-7.45*	-10.36	-7.19*	-10.10	-7.22*	-10.13
32	-6.12	-4.58	-6.12	-4.58	-5.93	-4.38	-5.95	-4.41
8	-4.83	-3.83	-4.83	-3.83	-4.68	-3.68	-4.69	-3.69

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.93	4.73	-6.93	4.73	-6.93	4.73	-6.92	4.74
1000	-2.00	4.49	-6.32	0.16	-5.89	0.60	-3.47	3.02
900	-2.80	3.65	-3.91	2.55	-4.48	1.98	-3.88	2.57
800	-3.39	3.06	-3.86	2.60	-4.54	1.92	-4.29	2.17
700	-3.81	2.02	-4.05	1.79	-4.78	1.06	-4.65	1.18
600	-4.16	1.63	-4.29	1.51	-5.05	0.74	-4.97	0.82
500	-4.40	0.22	-4.49	0.13	-5.31	-0.69	-5.26	-0.64
400	-4.57	-0.73	-4.61	-0.78	-5.53	-1.70	-5.49	-1.66
300	-4.64	-0.89	-4.67	-0.92	-5.69	-1.94	-5.67	-1.92
200	-4.63	-0.98	-4.65	-1.01	-5.77	-2.12	-5.75	-2.10
100	-4.48	-0.88	-4.49	-0.90	-5.63	-2.03	-5.62	-2.03
32	-4.02	2.19	-4.03	2.18	-5.09	1.11	-5.09	1.11
8	-3.32	3.00	-3.32	2.99	-4.21	2.11	-4.21	2.11

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	25.0		26.0		27.0		28.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	21.54	3.24	21.25	2.95	19.68	1.38	19.68	1.38
900	23.21	4.01	23.02	3.82	20.65	1.45	20.65	1.45
800	24.02	4.02	23.90	3.90	21.05	1.06	21.06	1.06
700	24.54	3.64	24.45	3.55	21.28	0.38	21.28	0.38
600	24.87	2.87	24.82	2.82	21.39	-0.61	21.39	-0.61
500	25.13	2.13	25.09	2.09	21.47	-1.53	21.47	-1.53
400	25.29	1.29	25.26	1.26	21.52	-2.48	21.52	-2.48
300	25.41	0.31	25.38	0.28	21.59	-3.51	21.58	-3.52
200	25.41	-0.69	25.37	-0.73	21.63	-4.47	21.64	-4.46
100	25.26	-1.94	25.24	-1.96	21.74	-5.46	21.75	-5.45
32	24.90	-3.60	24.87	-3.63	21.76	-6.74	21.77	-6.73
8	24.25	-4.95	24.23	-4.97	21.57	-7.63	21.57	-7.63
2	22.72	-7.28	22.70	-7.30	20.96	-9.04	20.97	-9.03
0	21.09	XXXX	21.07	XXXX	20.26	XXXX	20.27	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	10.87	1.45	10.82	1.40	11.33	1.91	11.33	1.91
900	11.52	1.50	11.44	1.42	12.13	2.11	12.13	2.11
800	11.99	1.26	11.96	1.23	12.71	1.98	12.71	1.98
700	12.45	0.97	12.44	0.96	13.23	1.75	13.22	1.74
600	12.87	2.50	12.90	2.53	13.72	3.35	13.73	3.36
500	13.35	4.12	13.38	4.15	14.25	5.02	14.26	5.03
400	13.84	5.65	13.86	5.67	14.79	6.60	14.80	6.61
300	14.42	7.21	14.43	7.22	15.41	8.20	15.41	8.20
200	15.08	8.56	15.08	8.56	16.07	9.55	16.07	9.55
100	16.02	8.55	16.02	8.55	16.99	9.52	16.97	9.50
32	17.12	8.15	17.12	8.15	17.95	8.98	17.95	8.98
8	18.21	8.66	18.21	8.66	18.80	9.25	18.79	9.24
2	20.20	20.20	20.18	20.18	20.16	20.16	20.16	20.16
0	22.31	XXXX	22.28	XXXX	21.75	XXXX	21.75	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	25.0		26.0		27.0		28.0	
INTERVAL	12HR		12HR		12HR		12HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	23.73	-15.37	23.71	-15.39	23.35	-15.75	23.35	-15.75
-0.125	24.09	-0.35	24.02	-0.42	24.02	-0.42	24.02	-0.42
-0.250	24.07	0.90	24.02	0.85	24.05	0.88	24.05	0.88
-0.500	22.66	1.10	22.66	1.10	22.67	1.11	22.67	1.11
-1.000	19.29	1.51	19.29	1.51	19.29	1.51	19.29	1.51
-2.000	24.54	6.87	24.54	6.87	24.55	6.88	24.54	6.87

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.87	-0.53	5.87	-0.53	6.30	-0.10	6.31	-0.09
2	3.02	-1.48	3.02	-1.48	3.39	-1.11	3.39	-1.11

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.43	0.23	1.42	0.22	1.42	0.22	1.42	0.22
R(N)	-0.04	XXXX	-0.05	XXXX	-0.24	XXXX	-0.23	XXXX
G(G,0)	-0.42	XXXX	-0.42	XXXX	-0.17	XXXX	-0.17	XXXX
G(E,0)	1.14	XXXX	1.12	XXXX	0.81	XXXX	0.81	XXXX
Q(S,0)	-0.75	XXXX	-0.75	XXXX	-0.86	XXXX	-0.38	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	2.34	XXXX	2.34	XXXX	2.54	XXXX	2.52	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	11.50	XXXX	11.30	XXXX	10.20	XXXX	10.20	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1884	1884	1884	1884
TAPE NO.	29.0	30.0	31.0	32.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
SEA	-0.30	19.89	-0.30	19.89	-0.30	19.89	-0.30	19.89
1000	-9.73*	-11.35	-5.3*	-4.94	-4.72*	-6.34	-11.22*	-12.84
900	-9.82*	-11.55	-8.20*	-9.93	-10.18*	-11.91	-11.31*	-13.04
800	-9.64*	-11.57	-9.14*	-10.67	-10.62*	-12.55	-11.15*	-12.68
700	-9.78*	-11.79	-9.41*	-11.42	-10.75*	-12.76	-10.88*	-12.89
600	-9.63*	-11.74	-9.41*	-11.52	-10.47*	-12.58	-10.54*	-12.65
500	-9.41*	-11.67	-9.27*	-11.53	-10.10*	-12.36	-10.14*	-12.40
400	-9.10*	-11.64	-9.01*	-11.60	-9.65*	-12.24	-9.67*	-12.26
300	-8.69*	-11.41	-8.63*	-11.35	-9.11*	-11.83	-8.12*	-11.84
200	-8.12*	-10.97	-8.06*	-10.93	-8.42*	-11.27	-8.43*	-11.28
100	-7.21*	-10.12	-7.19*	-10.10	-7.44*	-10.35	-7.45*	-10.36
32	-5.53	-4.41	-5.52	-4.37	-6.12	-4.57	-6.12	-4.58
8	-4.09	-3.09	-4.08	-3.08	-4.03	-3.83	-4.03	-3.83

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
SEA	-6.93	4.73	-6.93	4.73	-6.93	4.73	-6.93	4.73
1000	-3.47	3.02	-5.89	0.60	-6.32	0.16	-1.99	4.49
900	-3.66	2.57	-4.46	1.98	-5.52	2.54	-2.79	3.66
800	-4.29	2.17	-4.53	1.92	-3.86	2.59	-3.39	3.07
700	-4.65	1.19	-4.78	1.06	-4.05	1.78	-3.81	2.03
600	-4.98	0.82	-5.05	0.75	-4.30	1.49	-4.16	1.64
500	-5.26	-0.64	-5.30	-0.68	-4.49	0.13	-4.40	0.22
400	-5.49	-1.66	-5.53	-1.69	-4.61	-0.78	-4.56	-0.73
300	-5.67	-1.92	-5.68	-1.93	-4.67	-0.92	-4.64	-0.89
200	-5.76	-2.11	-5.76	-2.11	-4.66	-1.01	-4.63	-0.98
100	-5.62	-2.03	-5.63	-2.03	-4.49	-0.90	-4.48	-0.89
32	-5.09	1.11	-5.09	1.11	-4.03	2.18	-4.02	2.19
8	-4.20	2.11	-4.21	2.11	-3.33	2.99	-3.31	3.01

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	29.0		30.0		31.0		32.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	19.67	1.37	19.67	1.37	21.[illegible]	2.95	21.53	3.23
900	20.61	1.[illegible]	20.60	1.40	22.98	3.78	23.15	3.95
800	20.96	0.96	20.97	0.97	23.[illegible]	3.82	23.94	3.94
700	21.[illegible]	0.26	21.16	0.26	24.35	3.45	24.42	3.52
600	21.25	-0.75	21.25	-0.75	24.70	2.70	24.73	2.73
500	21.30	-1.70	21.31	-1.69	24.94	1.94	24.96	1.96
400	21.32	-2.68	21.32	-2.68	25.08	1.08	25.09	1.09
300	21.36	-3.74	21.36	-3.74	25.17	0.07	25.17	0.07
200	21.37	-4.73	21.36	-4.74	25.13	-0.97	25.13	-0.97
100	21.44	-5.76	21.44	-5.76	24.95	-2.25	24.95	-2.25
32	21.41	-7.09	21.40	-7.10	24.54	-3.96	24.53	-3.97
8	21.14	-8.06	21.16	-8.04	23.85	-5.35	23.84	-5.36
2	20.42	-9.58	20.43	-9.57	22.22	-7.78	22.20	-7.80
0	19.60	XXXX	19.60	XXXX	20.49	XXXX	20.47	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.32	1.96	11.32	1.90	10.82	1.40	10.86	1.44
900	12.0[illegible]	2.04	12.06	2.04	11.39	1.37	11.47	1.45
800	12.01	1.88	12.01	1.88	11.[illegible]	1.15	11.90	1.17
700	13.10	1.62	13.10	1.6[illegible]	2.[illegible]	0.85	12.32	0.84
600	13.56	3.13	13.56	3.1[illegible]	12.74	2.37	12.71	2.34
500	14.06	4.83	14.06	4.83	13.19	3.96	13.13	3.90
400	14.57	6.38	14.56	6.37	13.65	5.46	13.61	5.42
300	15.13	7.92	15.13	7.92	14.19	6.98	14.14	6.93
200	15.75	9.23	15.76	9.24	14.79	8.27	14.75	8.23
100	16.61	9.14	16.61	9.14	15.66	8.19	15.62	8.15
32	17.50	8.93	17.51	8.94	16.71	7.74	16.67	7.70
8	18.29	8.74	18.29	8.74	17.71	8.16	17.69	8.14
2	19.56	19.56	19.56	19.56	19.56	19.56	19.54	19.54
0	21.01	XXXX	21.02	XXXX	21.51	XXXX	21.49	XXXX

CASE DP6 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	29.0	30.0	31.0	32.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	22.21	-16.69	22.21	-16.69	22.64	-16.46	22.63	-16.47
-0.125	22.93	-1.51	22.93	-1.51	23.02	-1.42	23.02	-1.42
-0.250	23.59	0.42	23.59	0.42	23.61	0.44	23.61	0.44
-0.500	22.62	1.06	22.63	1.07	22.63	1.07	22.63	1.07
-1.000	19.19	1.41	19.18	1.40	19.19	1.41	19.19	1.41
-2.000	18.89	1.22	18.88	1.21	18.89	1.21	18.88	1.21

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	6.31	-0.09	6.30	-0.10	5.87	-0.53	5.87	-0.53
2	3.36	-1.14	3.35	-1.15	3.02	-1.48	3.02	-1.48

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.42	0.22	1.42	0.22	1.42	0.22	1.42	0.22
R(N)	-0.19	XXXX	-0.20	XXXX	-0.01	XXXX	-0.01	XXXX
G(0,0)	-0.20	XXXX	-0.20	XXXX	-0.45	XXXX	-0.44	XXXX
C(E,0)	0.75	XXXX	0.75	XXXX	1.05	XXXX	1.05	XXXX
W(S,0)	-0.74	XXXX	-0.74	XXXX	-0.61	XXXX	-0.61	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	2.52	XXXX	2.52	XXXX	2.30	XXXX	2.30	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	8.70	XXXX	8.70	XXXX	9.00	XXXX	9.00	XXXX

CASE GPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KILM SG/SEC)	24069	23634	23454	23919
TAPE NO.	34.0	35.0	36.0	37.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(MI	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-9.57	0.79	-9.57	0.79	-9.58	0.78	-9.57	0.79
1000	1.68	-0.43	-0.21*	-2.32	1.76	-0.35	4.44	2.34
900	2.50	0.29	1.86	-0.34	3.69	1.69	4.88	2.68
800	2.86	1.02	2.50	0.66	4.46	2.62	5.04	3.20
700	3.07	1.47	2.83	1.23	4.71	3.11	5.13	3.53
600	3.21	1.78	3.03	1.60	4.84	3.41	5.17	3.74
500	3.30	1.48	3.16	1.34	4.90	3.09	5.17	3.35
400	3.34	0.81	3.23	0.70	4.91	2.38	5.13	2.60
300	3.36	1.24	3.27	1.15	4.88	2.75	5.06	2.93
200	3.33	1.74	3.26	1.67	4.76	3.18	4.93	3.34
100	3.2.	2.10	3.15	2.05	4.53	3.42	4.67	3.56
32	2.88	2.63	2.83	2.58	4.02	3.77	4.13	3.88
8	2.38	1.61	2.34	1.57	3.30	2.53	3.39	2.62

V COMPONENT (M/SEC)

LEVEL(MI	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-17.93	0.03	-17.93	0.02	-17.93	0.03	-17.93	0.03
1000	-28.89	-23.09	-25.62	-19.82	-24.59	-18.79	-27.83	-22.03
900	-27.50	-21.74	-26.07	-20.31	-25.09	-19.43	-26.56	-20.80
800	-26.53	-20.10	-25.61	-19.18	-24.72	-18.29	-25.68	-19.25
700	-25.72	-18.17	-25.02	-17.47	-24.21	-16.66	-24.95	-17.40
600	-24.96	-16.85	-24.39	-16.26	-23.65	-15.54	-24.24	-16.13
500	-24.20	-15.69	-23.73	-15.18	-23.04	-14.49	-23.54	-14.99
400	-23.39	-14.25	-22.98	-13.84	-22.36	-13.22	-22.79	-13.65
300	-22.47	-15.05	-22.12	-14.70	-21.56	-14.14	-21.93	-14.51
200	-21.33	-16.44	-21.02	-16.13	-20.52	-15.83	-20.85	-15.96
100	-19.59	-16.71	-19.33	-16.45	-18.90	-16.02	-19.18	-16.30
32	-16.96	-9.66	-16.74	-9.44	-16.38	-9.08	-16.62	-9.32
8	-13.77	-6.41	-13.60	-6.24	-13.31	-5.95	-13.50	-6.14

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	34.0		35.0		36.0		37.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	21.46	0.86	21.48	0.88	20.28	-0.32	20.27	-0.33
900	21.79	0.59	21.82	0.62	20.34	-0.86	20.34	-0.86
800	21.94	-0.06	21.96	-0.04	20.37	-1.63	20.36	-1.64
700	22.02	-0.58	22.05	-0.55	20.38	-2.22	20.39	-2.21
600	22.06	-1.14	22.08	-1.12	20.38	-2.82	20.37	-2.83
500	22.10	-1.90	22.12	-1.88	20.38	-3.62	20.38	-3.62
400	22.09	-2.61	22.10	-2.60	20.36	-4.34	20.35	-4.35
300	22.07	-3.13	22.08	-3.12	20.35	-4.85	20.34	-4.86
200	22.04	-3.96	22.05	-3.95	20.34	-5.66	20.33	-5.67
100	21.95	-4.65	21.97	-4.63	20.34	-6.26	20.34	-6.26
32	21.82	-3.98	21.85	-3.95	20.34	-5.46	20.34	-5.46
8	21.69	-5.11	21.71	-5.09	20.35	-6.45	20.34	-6.46
2	21.52	-6.48	21.53	-6.47	20.34	-7.66	20.33	-7.67
0	21.08	XXXX	21.09	XXXX	20.31	XXXX	20.31	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.64	1.62	11.81	1.79	13.08	3.06	13.09	3.07
900	12.04	1.67	12.19	1.82	13.49	3.12	13.48	3.11
800	12.33	1.74	12.45	1.86	13.77	3.18	13.77	3.18
700	12.61	1.88	12.71	1.98	14.04	3.31	14.04	3.31
600	12.84	1.74	12.93	1.83	14.27	3.17	14.27	3.17
500	13.09	1.76	13.19	1.86	14.53	3.20	14.53	3.20
400	13.32	1.76	13.41	1.85	14.76	3.20	14.76	3.20
300	13.59	1.79	13.67	1.87	15.02	3.22	15.02	3.22
200	13.85	1.73	13.92	1.80	15.26	3.14	15.26	3.14
100	14.19	1.91	14.29	2.01	15.59	3.31	15.59	3.31
32	14.51	3.92	14.59	4.00	15.89	5.26	15.84	5.25
8	14.87	4.37	14.91	4.47	16.11	5.07	16.09	5.65
2	15.11	15.11	15.21	15.21	16.30	16.30	16.28	16.28
0	15.86	XXXX	15.95	XXXX	16.91	XXXX	16.90	XXXX

CASE CPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	34.0	35.0	36.0	37.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.33	-19.37	20.32	-19.38	20.07	-19.63	20.05	-19.64
-0.125	22.47	-0.03	22.47	-0.03	22.44	-0.06	22.44	-0.06
-0.250	24.21	1.32	24.21	1.32	24.20	1.31	24.21	1.32
-0.500	22.78	1.00	22.78	1.00	22.78	1.00	22.79	1.01
-1.000	19.16	1.10	19.15	1.09	19.16	1.10	19.16	1.10
-2.000	18.91	1.02	18.90	1.01	18.91	1.02	18.91	1.02

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	13.98	6.98	13.80	6.40	13.72	6.32	13.92	6.52
2	10.00	4.30	9.86	4.16	10.51	4.81	10.66	4.96

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	5.77	0.17	5.77	0.17	5.77	0.17	5.76	0.16
R(N)	2.87	XXXX	2.87	XXXX	2.82	XXXX	2.82	XXXX
Q(C,0)	-1.04	XXXX	-1.01	XXXX	-0.04	XXXX	-0.04	XXXX
Q(E,0)	3.70	XXXX	3.68	XXXX	2.80	XXXX	2.81	XXXX
Q(S,0)	0.22	XXXX	0.23	XXXX	0.08	XXXX	0.08	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	71.90	XXXX	69.72	XXXX	68.72	XXXX	71.16	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	6.90	XXXX	6.90	XXXX	6.60	XXXX	6.90	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

MCH SEC/SEC)	23019	23429	23834	24079
TAPE NO.	38.0	39.0	40.0	41.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-9.59	0.78	-9.57	0.79	-9.57	0.79	-9.56	0.78
1000	3.41	2.33	1.76	-0.35	-0.21*	-2.32	1.68	-0.43
900	4.80	2.65	3.90	1.70	1.87	-0.34	2.51	0.30
800	5.04	3.20	4.46	2.62	2.50	0.66	2.87	1.03
700	5.14	3.55	4.72	3.12	2.84	1.24	3.08	1.48
600	5.16	3.74	4.85	3.45	3.04	1.61	3.22	1.79
500	5.16	3.85	4.92	3.10	3.17	1.85	3.31	1.49
400	5.13	2.60	4.92	2.39	3.24	0.71	3.36	0.84
300	5.06	2.94	4.89	2.76	3.28	1.16	3.38	1.26
200	4.93	3.34	4.78	3.19	3.26	1.67	3.35	1.77
100	4.67	3.56	4.54	3.43	3.16	2.05	3.23	2.12
32	4.13	3.88	4.03	3.78	2.84	2.59	2.89	2.64
8	3.39	2.62	3.31	2.54	2.35	1.56	2.39	1.62

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-17.93	0.03	-17.92	0.04	-17.93	0.03	-17.93	0.03
1000	-27.83	-22.03	-24.59	-18.79	-25.62	-19.82	-23.90	-23.10
900	-26.56	-20.80	-25.11	-19.35	-26.06	-20.32	-27.51	-21.75
800	-25.66	-19.25	-24.72	-18.29	-25.61	-19.18	-26.54	-20.11
700	-24.95	-17.40	-24.21	-16.66	-25.03	-17.46	-25.72	-18.17
600	-24.24	-16.13	-23.65	-15.54	-24.40	-16.29	-24.97	-16.86
500	-23.54	-14.95	-23.05	-14.50	-23.72	-15.17	-24.20	-15.65
400	-22.80	-13.66	-22.36	-13.22	-22.98	-13.84	-23.39	-14.25
300	-21.93	-14.51	-21.56	-14.14	-22.12	-14.70	-22.48	-15.06
200	-20.85	-15.96	-20.52	-15.63	-21.02	-16.13	-21.33	-16.44
100	-19.18	-16.30	-19.90	-16.02	-19.35	-16.45	-19.60	-16.72
32	-16.62	-9.33	-17.39	-9.09	-16.74	-9.44	-16.97	-9.67
8	-13.50	-6.14	-13.32	-5.96	-13.60	-6.24	-13.77	-6.41

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	38.0	39.0	40.0	41.0
INTERVAL	6HR	6HR	6HR	6HR

AIR TEMPERATURE (DEG K)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.39	-0.21	20.39	-0.21	21.62	1.02	21.58	0.98
900	20.51	-0.69	20.52	-0.68	21.99	0.79	21.97	0.77
800	20.55	-1.45	20.56	-1.44	22.15	0.15	22.14	0.14
700	20.58	-2.02	20.58	-2.02	22.25	-0.35	22.25	-0.35
600	20.58	-2.62	20.59	-2.61	22.29	-0.91	22.29	-0.91
500	20.60	-3.40	20.61	-3.39	22.34	-1.66	22.33	-1.67
400	20.58	-4.12	20.59	-4.11	22.34	-2.36	22.33	-2.37
300	20.59	-4.61	20.60	-4.60	22.33	-2.87	22.32	-2.88
200	20.60	-5.40	20.61	-5.39	22.31	-3.69	22.30	-3.70
100	20.62	-5.98	20.63	-5.97	22.25	-4.35	22.24	-4.36
32	20.64	-5.16	20.65	-5.15	22.15	-3.65	22.13	-3.67
8	20.67	-6.13	20.69	-6.11	22.04	-4.76	22.03	-4.77
2	20.69	-7.31	20.71	-7.29	21.91	-6.09	21.90	-6.10
0	20.76	XXXX	20.79	XXXX	21.56	XXXX	21.54	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	13.15	3.13	13.15	3.13	11.88	1.86	11.71	1.69
900	13.56	3.19	13.55	3.22	12.25	1.88	12.12	1.75
800	13.86	3.27	13.87	3.28	12.54	1.95	12.43	1.84
700	14.24	3.41	14.13	3.40	12.81	2.08	12.71	1.98
600	14.38	3.28	14.38	3.28	13.05	1.95	12.95	1.85
500	14.65	3.32	14.64	3.31	13.30	1.97	13.21	1.88
400	14.87	3.31	14.90	3.34	13.53	1.97	13.44	1.88
300	15.13	3.33	15.14	3.34	13.79	1.99	13.71	1.91
200	15.39	3.27	15.39	3.27	14.07	1.95	13.97	1.85
100	15.72	3.44	15.72	3.44	14.42	2.14	14.34	2.06
32	16.00	5.41	16.01	5.42	14.75	4.16	14.67	4.08
8	16.25	5.81	16.24	5.80	15.07	4.63	14.99	4.55
2	16.49	16.44	16.47	16.47	15.38	15.38	15.29	15.29
0	17.11	XXXX	17.13	XXXX	16.19	XXXX	16.09	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	36.0	39.0	40.0	41.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	22.03	-17.67	22.06	-17.64	22.34	-17.36	22.33	-17.37
-0.125	23.55	1.05	23.61	1.11	23.63	1.13	23.64	1.14
-0.250	24.43	1.54	24.45	1.56	24.45	1.56	24.45	1.56
-0.500	22.79	1.01	22.79	1.01	22.78	1.00	22.78	1.00
-1.000	19.22	1.16	19.21	1.15	19.21	1.15	19.22	1.16
-2.000	24.57	6.68	24.57	6.68	24.57	6.68	24.57	6.68

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	13.52	6.52	13.72	6.72	13.80	6.80	13.98	6.98
2	10.85	5.15	10.71	5.01	9.99	4.29	10.13	4.43

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	5.76	0.16	5.76	0.16	5.76	0.16	5.76	0.16
R(N)	2.80	XXXX	2.80	XXXX	2.65	XXXX	2.64	XXXX
G(C,0)	0.16	XXXX	0.16	XXXX	-0.80	XXXX	-0.83	XXXX
G(E,0)	3.01	XXXX	3.01	XXXX	3.88	XXXX	3.92	XXXX
G(S,0)	-0.39	XXXX	-0.38	XXXX	-0.21	XXXX	-0.22	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	71.16	XXXX	68.76	XXXX	69.72	XXXX	71.98	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	6.70	XXXX	6.90	XXXX	6.00	XXXX	7.80	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KTCM SQ/SEC)	9449	9594	9594	9454
TAPE NO.	44.0	45.0	46.0	47.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	10.05	-0.30	10.05	-0.30	10.05	-0.30	10.05
1000	0.57	-1.54	1.08	-1.03	1.08	-1.03	0.57	-1.54
900	1.46	-0.75	1.63	-0.57	1.64	-0.56	1.45	-0.75
800	1.84	0.01	1.94	0.11	1.94	0.10	1.84	0.0
700	2.08	0.48	2.15	0.56	2.15	0.55	2.08	0.48
600	2.25	0.82	2.30	0.88	2.30	0.87	2.25	0.82
500	2.39	0.57	2.41	0.60	2.41	0.60	2.38	0.56
400	2.46	-0.07	2.49	-0.03	2.49	-0.03	2.47	-0.06
300	2.53	0.40	2.55	0.42	2.55	0.43	2.53	0.40
200	2.54	0.95	2.55	0.97	2.56	0.97	2.54	0.95
100	2.49	1.39	2.50	1.39	2.50	1.39	2.49	1.39
32	2.26	2.01	2.26	2.01	2.27	2.02	2.26	2.01
8	1.88	1.11	1.88	1.11	1.88	1.11	1.88	1.11

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.93	11.03	-6.93	11.03	-6.92	11.03	-6.93	11.03
1000	-12.61	-6.81	-16.19	-10.39	-16.19	-10.39	-12.61	-6.81
900	-14.61	-8.85	-15.83	-10.07	-15.83	-10.07	-14.60	-8.84
800	-14.82	-8.39	-15.45	-9.06	-15.45	-9.06	-14.82	-8.39
700	-14.71	-7.16	-15.14	-7.59	-15.15	-7.60	-14.71	-7.16
600	-14.50	-6.39	-14.80	-6.69	-14.80	-6.69	-14.50	-6.39
500	-14.19	-5.65	-14.42	-5.87	-14.42	-5.87	-14.19	-5.65
400	-13.82	-4.68	-14.01	-4.87	-14.01	-4.87	-13.82	-4.68
300	-13.35	-5.93	-13.49	-6.07	-13.50	-6.06	-13.36	-5.94
200	-12.73	-7.84	-12.84	-7.95	-12.84	-7.95	-12.73	-7.84
100	-11.73	-8.85	-11.81	-8.93	-11.81	-8.93	-11.73	-8.85
32	-10.16	-2.86	-10.23	-2.93	-10.23	-2.93	-10.16	-2.86
8	-8.25	-0.89	-8.30	-0.94	-8.30	-0.94	-8.25	-0.89

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	44.0	45.0	46.0	47.0
INTERVAL	6HR	6HR	6HR	6HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	19.92	-0.68	19.92	-0.68	19.96	-0.64	19.96	-0.64
900	20.37	-0.83	20.38	-0.82	20.46	-0.74	20.47	-0.73
800	20.52	-1.48	20.52	-1.48	20.63	-1.37	20.65	-1.35
700	20.61	-1.99	20.61	-1.99	20.73	-1.87	20.75	-1.85
600	20.63	-2.57	20.63	-2.57	20.77	-2.43	20.81	-2.39
500	20.65	-3.35	20.65	-3.35	20.79	-3.21	20.83	-3.17
400	20.63	-4.07	20.63	-4.07	20.79	-3.91	20.84	-3.86
300	20.63	-4.57	20.63	-4.57	20.81	-4.39	20.86	-4.34
200	20.63	-5.37	20.63	-5.37	20.82	-5.18	20.88	-5.12
100	20.65	-5.95	20.64	-5.96	20.84	-5.76	20.94	-5.66
32	20.56	-5.14	20.67	-5.13	20.89	-4.91	21.01	-4.79
8	20.72	-6.08	20.71	-6.09	20.94	-5.86	21.05	-5.69
2	20.74	-7.26	20.73	-7.27	20.97	-7.03	21.09	-6.91
0	20.66	XXXX	20.65	XXXX	21.13	XXXX	21.49	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.53	2.51	12.54	2.52	12.57	2.55	12.58	2.54
900	13.11	2.74	13.11	2.74	13.19	2.82	13.19	2.82
800	13.51	2.92	13.52	2.93	13.58	2.99	13.59	3.00
700	13.84	3.11	13.85	3.12	13.93	3.20	13.94	3.21
600	14.14	3.04	14.14	3.04	14.24	3.14	14.24	3.14
500	14.45	3.12	14.45	3.12	14.55	3.22	14.57	3.24
400	14.74	3.18	14.74	3.18	14.84	3.28	14.87	3.31
300	15.06	3.26	15.06	3.26	15.19	3.39	15.21	3.41
200	15.39	3.27	15.39	3.27	15.51	3.39	15.56	3.44
100	15.82	3.54	15.83	3.55	15.99	3.71	16.02	3.74
32	16.29	5.70	16.28	5.69	16.44	5.85	16.52	5.93
8	16.76	6.32	16.75	6.31	16.93	6.49	17.02	6.58
2	17.04	17.04	17.04	17.04	17.16	17.16	17.20	17.20
0	18.55	XXXX	18.51	XXXX	18.75	XXXX	18.95	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	44.0	45.0	46.0	47.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.16	-19.54	20.17	-19.53	20.88	-18.82	22.28	-17.42
-0.125	22.44	-0.06	22.43	-0.07	23.41	0.91	23.63	1.13
-0.250	24.21	1.32	24.19	1.30	24.43	1.54	24.45	1.56
-0.500	22.77	0.99	22.78	1.00	22.78	1.00	22.78	1.00
-1.000	19.17	1.11	19.17	1.11	19.22	1.16	19.21	1.15
-2.000	18.90	1.01	18.91	1.02	24.57	6.68	24.57	6.68

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	8.47	1.07	8.52	1.12	8.52	1.12	8.47	1.07
2	7.13	1.43	7.11	1.41	7.34	1.64	8.97	3.27

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.76	0.16	5.76	0.16	5.76	0.16	5.76	0.16
R(N)	2.79	XXXX	2.79	XXXX	2.78	XXXX	2.75	XXXX
Q(C,0)	0.10	XXXX	0.10	XXXX	0.13	XXXX	0.25	XXXX
Q(E,0)	2.48	XXXX	2.49	XXXX	2.57	XXXX	2.72	XXXX
Q(S,0)	0.21	XXXX	0.20	XXXX	0.08	XXXX	-0.22	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	17.08	XXXX	17.46	XXXX	17.46	XXXX	17.08	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	5.10	XXXX	5.10	XXXX	5.90	XXXX	5.90	XXXX

CASE CPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KICM SQ/SEC)	1884	1879	1884	1864
TAPE NO.	58.0	59.0	60.0	61.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	10.05	-0.30	10.05	-0.30	10.05	-0.30	10.05
1000	-2.63*	-4.74	-1.84*	-3.95	-0.00*	-2.11	0.68	-1.42
900	-2.01*	-4.22	-1.98*	-4.19	0.68	-1.52	0.92	-1.28
800	-1.69*	-3.53	-1.66*	-3.50	1.01	-0.83	1.10	-0.73
700	-1.13*	-2.73	-1.11*	-2.71	1.37	-0.22	1.41	-0.18
600	-0.51*	-1.94	-0.50*	-1.93	1.78	0.36	1.79	0.36
500	0.12	-1.70	0.13	-1.69	2.20	0.39	2.21	0.39
400	0.75	-1.77	0.76	-1.77	2.61	0.09	2.62	0.09
300	1.38	-0.74	1.39	-0.73	3.03	0.90	3.03	0.90
200	1.99	0.40	1.99	0.41	3.42	1.83	3.42	1.83
100	2.59	1.48	2.59	1.48	3.75	2.64	3.75	2.64
32	2.83	2.58	2.83	2.58	3.74	3.49	3.74	3.49
8	2.51	1.74	2.51	1.74	3.23	2.46	3.23	2.46

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.93	11.03	-6.93	11.03	-6.93	11.03	-6.93	11.03
1000	-17.74	-11.94	-12.38	-6.58	-11.02	-5.22	-16.33	-10.53
900	-17.96	-12.20	-17.02	-11.26	-15.24	-9.48	-16.34	-10.58
800	-17.87	-11.45	-17.59	-11.16	-15.93	-9.50	-16.32	-9.89
700	-17.72	-10.17	-17.62	-10.07	-16.13	-8.58	-16.29	-8.74
600	-17.55	-9.44	-17.50	-9.39	-16.16	-8.05	-16.24	-8.13
500	-17.28	-8.73	-17.26	-8.71	-16.10	-7.55	-16.14	-7.59
400	-16.92	-7.78	-16.90	-7.76	-15.95	-6.81	-15.97	-6.83
300	-16.42	-9.00	-16.41	-8.99	-15.67	-8.25	-15.68	-8.26
200	-15.72	-10.83	-15.72	-10.83	-15.19	-10.30	-15.20	-10.31
100	-14.57	-11.6[illegible]	-14.58	-11.70	-14.22	-11.34	-14.24	-11.36
32	-12.70	-5.40	-12.70	-5.40	-12.51	-5.21	-12.51	-5.21
8	-10.37	-3.02	-10.[illegible]	-3.01	-10.24	-2.88	-10.24	-2.88

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	58.0	59.0	60.0	61.0
INTERVAL	6HR	6HR	6HR	6HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	19.21	-1.39	19.25	-1.35	18.84	-1.76	18.85	-1.75
900	20.74	-0.46	20.78	-0.42	20.01	-1.19	20.02	-1.18
800	21.05	-0.35	21.07	-0.33	20.59	-1.41	20.56	-1.42
700	22.26	-0.34	22.28	-0.32	20.92	-1.68	20.92	-1.66
600	22.70	-0.50	22.72	-0.48	21.10	-2.10	21.10	-2.10
500	23.02	-0.98	23.03	-0.97	21.18	-2.82	21.19	-2.81
400	23.23	-1.47	23.24	-1.46	21.21	-3.49	21.22	-3.48
300	23.37	-1.83	23.37	-1.83	21.24	-3.96	21.24	-3.96
200	23.41	-2.59	23.41	-2.59	21.30	-4.70	21.29	-4.71
100	23.27	-3.33	23.28	-3.32	21.44	-3.16	21.44	-5.16
32	23.25	-2.55	23.25	-2.55	21.76	-4.04	21.76	-4.04
8	23.43	-3.37	23.45	-3.35	22.24	-4.56	22.23	-4.57
2	24.28	-3.72	24.29	-3.71	23.51	-4.49	23.50	-4.50
0	24.74	XXXX	24.74	XXXX	24.47	XXXX	24.47	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	10.79	0.77	11.14	1.12	11.71	1.69	11.71	1.69
900	11.52	1.15	11.76	1.39	12.51	2.14	12.51	2.14
800	12.02	1.43	12.16	1.57	13.04	2.45	13.04	2.45
700	12.42	1.69	12.49	1.76	13.49	2.76	13.49	2.76
600	12.76	1.66	12.80	1.70	13.85	2.75	13.86	2.76
500	13.13	1.80	13.15	1.82	14.20	2.93	14.20	2.93
400	13.50	1.94	13.52	1.96	14.65	3.09	14.66	3.10
300	13.99	2.19	13.99	2.19	15.12	3.32	15.12	3.32
200	14.57	2.45	14.58	2.46	15.66	3.54	15.66	3.54
100	15.59	3.31	15.61	3.33	16.54	4.26	16.53	4.25
32	17.02	6.43	17.02	6.43	17.77	7.18	17.77	7.18
8	18.71	8.27	18.71	8.27	19.31	8.87	19.29	8.85
2	23.46	23.48	23.49	23.49	23.13	23.13	23.12	23.12
0	26.09	XXXX	26.09	XXXX	26.03	XXXX	26.04	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	58.0	59.0	60.0	61.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	23.45	-16.25	23.44	-16.26	23.34	-16.36	23.35	-16.35
-0.125	23.71	1.21	23.71	1.21	23.69	1.19	23.69	1.19
-0.250	24.44	1.55	24.44	1.55	24.44	1.55	24.43	1.54
-0.500	22.79	1.00	22.79	1.01	22.79	1.01	22.78	1.00
-1.000	19.21	1.15	19.21	1.15	19.21	1.15	19.21	1.15
-2.000	24.57	6.68	24.56	6.67	24.57	6.68	24.57	6.68

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	10.66	3.28	10.66	3.26	10.74	3.34	10.74	3.34
2	3.75	-1.92	3.77	-1.93	4.69	-1.07	4.65	-1.05

SURFACE ENERGY TERMS (LY/SEC)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	5.77	0.17	5.77	0.17	5.76	0.16	5.76	0.16
R(N)	2.59	XXXX	2.59	XXXX	2.49	XXXX	2.49	XXXX
Q(C,0)	0.17	XXXX	0.17	XXXX	0.30	XXXX	0.31	XXXX
Q(E,0)	2.03	XXXX	2.04	XXXX	1.86	XXXX	1.86	XXXX
Q(S,0)	0.38	XXXX	0.38	XXXX	0.33	XXXX	0.33	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	4.30	XXXX	4.30	XXXX	4.32	XXXX	4.32	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	4.50	XXXX	4.60	XXXX	4.40	XXXX	4.30	XXXX

CASE CPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	6859	6864	6954	6954
TAPE NO.	67.0	68.0	69.0	70.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.66	0.14	-1.66	0.14	-1.65	0.14	-1.65	0.14
1000	9.59	4.76	6.74	1.91	7.20	2.37	10.20	5.37
900	9.66	4.80	9.46	4.60	9.95	5.09	10.19	5.34
800	9.74	4.88	9.73	4.87	10.10	5.30	10.20	5.34
700	9.82	4.93	9.83	4.94	10.21	5.32	10.22	5.33
600	9.94	4.99	9.95	5.00	10.29	5.34	10.29	5.34
500	10.10	5.48	10.10	5.48	10.40	5.78	10.41	5.79
400	10.30	5.71	10.30	5.71	10.56	5.97	10.56	5.97
300	10.51	7.39	10.50	7.38	10.71	7.59	10.72	7.60
200	10.57	8.98	10.56	8.97	10.72	9.13	10.73	9.14
100	10.22	10.22	10.22	10.22	10.33	10.33	10.33	10.33
32	9.08*	12.58	9.08*	12.58	9.15*	12.65	9.15*	12.65
8	7.45*	10.85	7.45*	10.85	7.51*	10.91	7.51*	10.91

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.19	0.02	-10.19	0.02	-10.19	0.02	-10.19	0.02
1000	-9.70	-7.94	-9.64	-7.88	-8.38	-6.62	-8.20	-6.44
900	-9.66	-7.98	-9.64	-7.96	-8.18	-6.50	-8.17	-6.49
800	-9.60	-7.92	-9.58	-7.90	-8.17	-6.49	-8.17	-6.49
700	-9.46	-7.87	-9.46	-7.87	-8.14	-6.55	-8.14	-6.55
600	-9.25	-7.83	-9.25	-7.83	-8.02	-6.60	-8.02	-6.60
500	-8.85	-8.59	-8.83	-8.59	-7.72	-7.48	-7.72	-7.48
400	-8.12*	-8.76	-8.12*	-8.76	-7.16*	-7.80	-7.16*	-7.80
300	-7.03*	-8.83	-7.04*	-8.84	-6.24*	-8.04	-6.24*	-8.04
200	-5.53*	-8.18	-5.53*	-8.18	-4.92*	-7.57	-4.92*	-7.57
100	-3.61*	-5.67	-3.61*	-5.67	-3.22*	-5.28	-3.22*	-5.28
32	-2.07*	-3.27	-2.07*	-3.27	-1.85*	-3.05	-1.85*	-3.05
8	-1.40*	-1.58	-1.40*	-1.58	-1.25*	-1.43	-1.26*	-1.44

CASE GPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	67.0	68.0	69.0	70.0
INTERVAL	2HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.23	1.83	18.26	1.86	18.24	1.84	18.24	1.84
900	19.31	2.11	19.32	2.12	19.26	2.06	19.26	2.06
800	20.13	2.23	20.13	2.23	20.02	2.12	20.02	2.12
700	20.76	1.86	20.76	1.86	20.59	1.69	20.59	1.69
600	21.21	1.41	21.21	1.41	20.98	1.18	20.98	1.18
500	21.54	1.04	21.54	1.04	21.24	0.74	21.24	0.74
400	21.76	0.36	21.75	0.35	21.40	0.0	21.41	0.01
300	21.90	-0.20	21.91	-0.19	21.51	-0.59	21.51	-0.59
200	21.99	-0.51	21.99	-0.51	21.59	-0.91	21.60	-0.90
100	21.94	0.24	21.94	0.24	21.61	-0.09	21.61	-0.09
32	21.57	-0.83	21.58	-0.82	21.30	-1.10	21.30	-1.10
8	20.87	-1.63	20.86	-1.64	20.63	-1.87	20.64	-1.86
2	19.33	-3.27	19.32	-3.28	19.18	-3.42	19.19	-3.41
0	17.54	XXXX	17.54	XXXX	17.48	XXXX	17.49	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.75	1.93	11.79	1.97	11.93	2.11	11.94	2.12
900	12.41	2.18	12.43	2.20	12.61	2.38	12.61	2.38
800	13.02	2.65	13.03	2.66	13.23	2.86	13.23	2.86
700	13.66	2.41	13.69	2.44	13.90	2.65	13.88	2.63
600	14.23	2.43	14.23	2.43	14.45	2.65	14.44	2.64
500	14.70	2.42	14.71	2.43	14.92	2.64	14.92	2.64
400	15.02	2.15	15.02	2.15	15.23	2.36	15.23	2.36
300	15.21	1.36	15.22	1.37	15.42	1.57	15.43	1.58
200	15.28	0.20	15.27	0.19	15.47	0.39	15.48	0.40
100	15.33	0.74	15.32	0.73	15.51	0.92	15.50	0.91
32	15.42	0.63	15.41	0.62	15.55	0.76	15.55	0.76
8	15.69	0.51	15.69	0.51	15.80	0.62	15.81	0.63
2	16.29	16.29	16.29	16.29	16.37	16.37	16.37	16.37
0	16.99	XXXX	16.98	XXXX	17.04	XXXX	17.03	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	67.0	68.0	69.0	70.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	16.40	1.60	16.40	1.60	16.41	1.61	16.41	1.61
-0.125	23.24	-0.43	23.24	-0.43	23.23	-0.44	23.24	-0.43
-0.250	24.81	0.31	24.81	0.31	24.81	0.31	24.82	0.32
-0.500	22.85	0.18	22.85	0.18	22.85	0.18	22.85	0.18
-1.000	19.13	0.30	19.13	0.30	19.13	0.30	19.13	0.30
-2.000	18.91	0.30	18.91	0.30	18.90	0.29	18.91	0.30

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	7.57	4.17	7.57	4.17	7.61	4.21	7.61	4.21
2	4.06	1.46	4.06	1.46	4.10	1.50	4.10	1.50

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.38	0.18	1.38	0.18	1.38	0.18	1.38	0.18
R(N)	0.00	XXXX	0.01	XXXX	-0.00	XXXX	-0.00	XXXX
Q(C,0)	-1.62	XXXX	-1.62	XXXX	-1.57	XXXX	-1.56	XXXX
Q(E,0)	1.31	XXXX	1.30	XXXX	1.25	XXXX	1.25	XXXX
Q(S,0)	0.33	XXXX	0.33	XXXX	0.32	XXXX	0.32	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	11.08	XXXX	11.08	XXXX	11.28	XXXX	11.28	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.60	XXXX	0.60	XXXX	0.60	XXXX	0.60	XXXX

CASE LPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SC/SEC)	6954	6949	6859	6864
TAPE NO.	71.0	72.0	73.0	74.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.65	0.14	-1.66	0.14	-1.66	0.13	-1.66	0.14
1000	10.20	5.37	7.20	2.37	6.73	1.90	9.60	4.77
900	10.19	5.34	9.95	5.09	9.46	4.60	9.67	4.81
800	10.19	5.34	10.16	5.30	9.73	4.87	9.74	4.88
700	10.22	5.33	10.21	5.32	9.83	4.94	9.83	4.94
600	10.29	5.34	10.29	5.34	9.94	4.99	9.94	4.99
500	10.41	5.79	10.40	5.78	10.11	5.49	10.10	5.48
400	10.56	5.97	10.56	5.97	10.30	5.71	10.30	5.71
300	10.72	7.60	10.71	7.59	10.51	7.39	10.51	7.39
200	10.73	9.14	10.73	9.14	10.56	8.97	10.57	8.98
100	10.33	10.33	10.33	10.33	10.22	10.22	10.22	10.22
32	9.15*	12.65	9.15*	12.65	9.07*	12.57	9.08*	12.58
8	7.51*	10.91	7.51*	10.91	7.45*	10.85	7.45*	10.85

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.19	0.02	-10.19	0.02	-10.19	0.02	-10.19	0.02
1000	-8.20	-6.44	-8.38	-6.62	-9.64	-7.88	-9.70	-7.94
900	-8.18	-6.50	-8.18	-6.50	-9.64	-7.96	-9.67	-7.99
800	-8.17	-6.49	-8.17	-6.49	-9.58	-7.90	-9.60	-7.92
700	-8.14	-6.55	-8.14	-6.55	-9.45	-7.86	-9.46	-7.87
600	-8.02	-6.60	-8.02	-6.60	-9.25	-7.83	-9.25	-7.83
500	-7.72	-7.48	-7.73	-7.49	-8.83	-8.59	-8.83	-8.59
400	-7.16*	-7.80	-7.16*	-7.80	-8.12*	-8.76	-8.12*	-8.76
300	-6.23*	-8.03	-6.24*	-8.04	-7.03*	-8.83	-7.03*	-8.83
200	-4.92*	-7.57	-4.93*	-7.58	-5.53*	-8.18	-5.53*	-8.18
100	-3.22*	-5.28	-3.22*	-5.28	-3.61*	-5.67	-3.61*	-5.67
32	-1.85*	-3.05	-1.85*	-3.05	-2.07*	-3.27	-2.07*	-3.27
8	-1.25*	-1.43	-1.25*	-1.43	-1.40*	-1.58	-1.40*	-1.58

CASE EPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	71.0	72.0	73.0	74.0
INTERVAL	2HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.23	1.83	18.23	1.83	18.25	1.85	18.23	1.83
900	19.26	2.06	19.26	2.06	19.32	2.12	19.30	2.10
800	20.02	2.12	20.02	2.12	20.13	2.23	20.12	2.22
700	20.59	1.69	20.59	1.69	20.77	1.87	20.76	1.86
600	20.98	1.18	20.98	1.18	21.22	1.42	21.21	1.41
500	21.25	0.75	21.25	0.75	21.54	1.04	21.55	1.05
400	21.41	0.01	21.41	0.01	21.76	0.36	21.76	0.36
300	21.54	-0.56	21.55	-0.55	21.93	-0.17	21.93	-0.17
200	21.66	-0.84	21.66	-0.84	22.05	-0.45	22.05	-0.45
100	21.74	0.04	21.74	0.04	22.08	0.38	22.07	0.37
32	21.59	-0.81	21.61	-0.79	21.88	-0.52	21.88	-0.52
8	21.14	-1.36	21.15	-1.35	21.37	-1.13	21.36	-1.14
2	20.08	-2.52	20.09	-2.51	20.25	-2.35	20.23	-2.37
0	18.79	XXXX	18.79	XXXX	18.90	XXXX	18.87	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.94	2.12	11.95	2.13	11.78	1.96	11.75	1.93
900	12.60	2.37	12.59	2.36	12.43	2.20	12.41	2.18
800	13.22	2.85	13.23	2.86	13.03	2.66	13.02	2.65
700	13.90	2.65	13.90	2.65	13.69	2.44	13.66	2.41
600	14.45	2.65	14.45	2.65	14.23	2.43	14.23	2.43
500	14.93	2.65	14.93	2.65	14.71	2.43	14.71	2.43
400	15.24	2.37	15.24	2.37	15.03	2.16	15.03	2.16
300	15.45	1.60	15.46	1.61	15.24	1.39	15.24	1.39
200	15.54	0.46	15.54	0.46	15.35	0.27	15.34	0.26
100	15.63	1.04	15.62	1.03	15.45	0.86	15.45	0.86
32	15.78	0.99	15.78	0.99	15.65	0.86	15.65	0.86
8	16.14	0.96	16.14	0.96	16.03	0.85	16.02	0.84
2	16.87	16.87	16.87	16.87	16.79	16.79	16.79	16.79
0	17.75	XXXX	17.75	XXXX	17.71	XXXX	17.71	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	71.0	72.0	73.0	74.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.89	6.09	20.89	6.09	20.89	6.09	20.89	6.09
-0.125	24.08	0.41	24.08	0.41	24.08	0.41	24.07	0.40
-0.250	24.85	0.35	24.86	0.36	24.86	0.36	24.86	0.36
-0.500	22.85	0.18	22.85	0.18	22.85	0.18	22.85	0.18
-1.000	19.15	0.32	19.14	0.31	19.14	0.31	19.14	0.31
-2.000	24.57	5.96	24.57	5.96	24.57	5.96	24.57	5.96

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	7.61	4.21	7.61	4.21	7.58	4.18	7.58	4.18
2	4.18	1.58	4.18	1.58	4.14	1.54	4.14	1.54

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.38	0.18	1.38	0.18	1.38	0.18	1.38	0.18
R(N)	-0.11	XXXX	-0.12	XXXX	-0.10	XXXX	-0.11	XXXX
Q(C,0)	-1.16	XXXX	-1.16	XXXX	-1.22	XXXX	-1.22	XXXX
Q(E,0)	1.64	XXXX	1.63	XXXX	1.65	XXXX	1.69	XXXX
Q(S,0)	-0.59	XXXX	-0.59	XXXX	-0.57	XXXX	-0.57	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	11.28	XXXX	11.30	XXXX	11.06	XXXX	11.10	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.10	XXXX	0.80	XXXX	0.80	XXXX	0.80	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	4704	4704	4694	4699
TAPE NO.	77.0	78.0	79.0	80.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	1.49	-0.30	1.49	-0.30	1.49	-0.30	1.49
1000	6.53	1.70	9.23	4.40	9.23	4.40	6.53	1.70
900	9.07	4.21	9.23	4.37	9.23	4.37	9.07	4.21
800	9.21	4.35	9.23	4.37	9.22	4.36	9.21	4.35
700	9.24	4.35	9.24	4.35	9.24	4.35	9.24	4.35
600	9.29	4.34	9.29	4.34	9.29	4.34	9.29	4.34
500	9.39	4.77	9.39	4.77	9.39	4.77	9.39	4.77
400	9.58	4.99	9.57	4.98	9.57	4.98	9.57	4.98
300	9.83	6.71	9.83	6.71	9.83	6.71	9.83	6.71
200	9.98	8.39	9.99	8.40	9.99	8.40	9.99	8.40
100	9.64	9.64	9.65	9.65	9.65	9.65	9.65	9.65
32	8.37*	11.87	8.37*	11.87	8.37*	11.87	8.37*	11.87
8	6.81*	10.21	6.80*	10.20	6.81*	10.21	6.81*	10.21

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.93	3.28	-6.93	3.28	-6.93	3.28	-6.93	3.28
1000	-7.36	-5.60	-7.51	-5.76	-7.52	-5.76	-7.36	-5.60
900	-7.47	-5.80	-7.49	-5.81	-7.49	-5.81	-7.48	-5.80
800	-7.49	-5.82	-7.49	-5.82	-7.49	-5.82	-7.49	-5.82
700	-7.48	-5.89	-7.48	-5.89	-7.48	-5.89	-7.47	-5.89
600	-7.43	-6.01	-7.43	-6.01	-7.43	-6.01	-7.43	-6.01
500	-7.23	-6.99	-7.24	-7.00	-7.24	-7.00	-7.24	-7.00
400	-6.76*	-7.40	-6.76*	-7.40	-6.76*	-7.40	-6.76*	-7.40
300	-5.81*	-7.61	-5.81*	-7.61	-5.81*	-7.61	-5.81*	-7.61
200	-4.25*	-6.90	-4.25*	-6.90	-4.25*	-6.90	-4.26*	-6.91
100	-2.10*	-4.16	-2.10*	-4.16	-2.10*	-4.16	-2.10*	-4.16
32	-0.51*	-1.71	-0.51*	-1.71	-0.51*	-1.71	-0.51*	-1.71
8	-0.06*	-0.24	-0.06*	-0.24	-0.06*	-0.24	-0.05*	-0.23

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	77.0	78.0	79.0	80.0
INTERVAL	2HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.19	1.79	18.19	1.79	18.19	1.79	18.19	1.79
900	19.17	1.97	19.19	1.99	19.17	1.97	19.17	1.97
800	19.94	2.04	19.94	2.04	19.94	2.04	19.94	2.04
700	20.57	1.67	20.57	1.67	20.57	1.67	20.58	1.68
600	21.01	1.21	21.01	1.21	21.01	1.21	21.01	1.21
500	21.20	0.70	21.30	0.80	21.29	0.79	21.30	0.80
400	21.44	0.04	21.44	0.04	21.45	0.05	21.44	0.04
300	21.55	-0.55	21.54	-0.56	21.56	-0.54	21.56	-0.54
200	21.65	-0.85	21.65	-0.85	21.65	-0.81	21.68	-0.82
100	21.79	0.09	21.78	0.08	21.91	0.21	21.90	0.20
32	21.63	-0.77	21.63	-0.77	21.92	-0.48	21.93	-0.47
8	20.91	-1.59	20.91	-1.59	21.45	-1.05	21.45	-1.05
2	19.15	-3.47	19.14	-3.48	20.17	-2.43	20.16	-2.44
0	17.17	XXXX	17.18	XXXX	18.71	XXXX	18.70	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.92	2.10	11.92	2.10	11.92	2.10	11.91	2.09
900	12.54	2.31	12.54	2.31	12.54	2.31	12.54	2.31
800	13.12	2.75	13.12	2.75	13.12	2.75	13.11	2.74
700	13.81	2.56	13.81	2.56	13.81	2.56	13.81	2.56
600	14.46	2.66	14.46	2.66	14.46	2.66	14.46	2.66
500	15.03	2.75	15.03	2.75	15.04	2.76	15.04	2.76
400	15.40	2.53	15.41	2.54	15.41	2.54	15.41	2.54
300	15.58	1.73	15.59	1.74	15.59	1.74	15.59	1.74
200	15.52	0.44	15.52	0.44	15.57	0.49	15.57	0.49
100	15.34	0.75	15.34	0.75	15.46	0.87	15.46	0.87
32	15.25	0.46	15.25	0.46	15.52	0.73	15.51	0.72
8	15.51	0.33	15.51	0.33	15.54	0.76	15.93	0.75
2	16.26	16.26	16.26	16.26	16.93	16.93	16.93	16.93
0	17.08	XXXX	17.08	XXXX	18.05	XXXX	18.06	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	77.0	78.0	79.0	80.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	16.35	1.55	16.35	1.55	20.89	6.09	20.89	6.09
-0.125	23.23	-0.44	23.24	-0.43	24.07	0.42	24.07	0.40
-0.250	24.81	0.31	24.81	0.31	24.87	0.37	24.86	0.36
-0.500	22.64	0.17	22.65	0.18	22.86	0.19	22.85	0.18
-1.000	19.13	0.30	19.13	0.30	19.15	0.32	19.14	0.31
-2.000	18.90	0.29	18.90	0.29	24.56	5.95	24.56	5.95

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	6.81	3.41	6.81	3.41	6.81	3.41	6.81	3.41
2	3.57	0.97	3.57	0.97	3.62	1.02	3.62	1.02

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.38	0.18	1.38	0.18	1.38	0.18	1.38	0.18
R(N)	0.05	XXXX	0.05	XXXX	-0.07	XXXX	-0.07	XXXX
Q(C,0)	-1.25	XXXX	-1.25	XXXX	-0.91	XXXX	-0.91	XXXX
Q(E,0)	1.06	XXXX	1.09	XXXX	1.46	XXXX	1.46	XXXX
Q(S,0)	0.24	XXXX	0.24	XXXX	-0.62	XXXX	-0.62	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	6.82	XXXX	6.82	XXXX	6.82	XXXX	6.78	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.50	XXXX	0.50	XXXX	0.70	XXXX	0.70	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KCM SC/SEC)	4559	4564	1c84	1894
TAPE NO.	81.0	82.0	87.0	88.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	1.49	-0.31	1.49	-1.66	0.14	-1.66	0.14
1000	6.08	1.25	8.63	3.80	10.20	5.37	7.13	2.30
900	8.59	5.73	8.71	5.85	10.19	5.34	10.00	5.14
800	8.76	3.92	8.77	3.91	10.20	5.34	10.17	5.31
700	8.86	3.97	8.85	3.96	10.23	5.34	10.23	5.34
600	8.95	4.00	8.95	4.00	10.32	5.37	10.32	5.37
500	9.09	4.47	9.10	4.48	10.44	5.82	10.44	5.82
400	9.32	4.73	9.32	4.73	10.57	5.98	10.56	5.97
300	9.83	6.51	9.82	6.51	10.88	7.56	10.68	7.56
200	9.84	8.25	9.84	8.25	10.85	9.06	10.65	9.06
100	9.56	9.56	9.55	9.55	10.31	10.31	10.31	10.31
32	8.31*	11.81	8.31*	11.81	9.32*	12.82	9.31*	12.81
8	6.76*	10.16	6.76*	10.16	7.76*	11.16	7.75*	11.15

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.92	3.28	-6.93	3.28	-10.19	0.02	-10.19	0.02
1000	-8.82	-6.86	-9.02	-7.20	-8.20	-6.44	-8.39	-6.63
900	-8.95	-7.27	-8.99	-7.31	-8.17	-6.49	-8.18	-6.50
800	-8.91	-7.23	-8.93	-7.25	-8.16	-6.48	-8.16	-6.48
700	-8.81	-7.22	-8.82	-7.23	-8.09	-6.50	-8.09	-6.50
600	-8.87	-7.25	-8.88	-7.26	-7.91	-6.49	-7.91	-6.50
500	-8.36	-8.12	-8.37	-8.13	-7.54	-7.30	-7.55	-7.31
400	-7.74*	-8.38	-7.74*	-8.38	-6.93*	-7.57	-6.95*	-7.59
300	-6.62*	-8.42	-6.61*	-8.41	-6.06*	-7.86	-6.08*	-7.88
200	-4.85*	-7.50	-4.85*	-7.50	-4.91*	-7.56	-4.93*	-7.58
100	-2.45*	-4.51	-2.45*	-4.51	-3.49*	-5.55	-3.51*	-5.57
32	-0.64*	-1.84	-0.65*	-1.85	-2.34*	-3.54	-2.36*	-3.56
8	-0.13*	-0.31	-0.14*	-0.32	-1.75*	-1.93	-1.75*	-1.93

CASE EPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	81.0	82.0	87.0	88.0
INTERVAL	2HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.20	1.80	18.18	1.78	18.28	1.88	18.28	1.88
900	19.23	2.03	19.21	2.01	19.31	2.11	19.32	2.12
800	20.05	2.15	20.03	2.13	20.07	2.17	20.06	2.16
700	20.73	1.83	20.72	1.82	20.62	1.72	20.62	1.72
600	21.23	1.43	21.22	1.42	20.99	1.19	20.98	1.18
500	21.59	1.09	21.58	1.08	21.22	0.72	21.22	0.72
400	21.81	0.41	21.79	0.39	21.35	-0.05	21.35	-0.05
300	21.95	-0.15	21.94	-0.16	21.43	-0.67	21.43	-0.67
200	22.08	-0.42	22.07	-0.43	21.44	-1.06	21.45	-1.05
100	22.23	0.53	22.22	0.52	21.32	-0.38	21.31	-0.39
32	22.19	-0.21	22.18	-0.22	20.81	-1.59	20.81	-1.59
8	21.66	-0.84	21.65	-0.85	20.03	-2.47	20.02	-2.48
2	20.30	-2.30	20.29	-2.31	16.36	-4.24	16.35	-4.25
0	16.76	XXXX	18.76	XXXX	16.54	XXXX	16.54	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.78	1.96	11.75	1.93	11.97	2.15	11.96	2.14
900	12.39	2.16	12.36	2.13	12.65	2.42	12.66	2.43
800	12.94	2.57	12.92	2.55	13.29	2.92	13.30	2.93
700	13.62	2.37	13.61	2.36	13.91	2.66	13.91	2.66
600	14.26	2.46	14.26	2.46	14.41	2.61	14.41	2.61
500	14.84	2.56	14.84	2.56	14.84	2.56	14.83	2.55
400	15.21	2.34	15.21	2.34	15.11	2.24	15.12	2.25
300	15.40	1.55	15.39	1.54	15.32	1.47	15.33	1.48
200	15.38	0.30	15.38	0.30	15.43	0.35	15.44	0.36
100	15.30	0.71	15.31	0.72	15.55	0.96	15.56	0.97
32	15.39	0.60	15.38	0.59	15.71	0.92	15.71	0.92
8	15.84	0.66	15.83	0.65	16.03	0.85	16.03	0.85
2	16.89	16.89	16.88	16.88	16.86	16.86	16.86	16.86
0	18.07	XXXX	18.07	XXXX	17.76	XXXX	17.76	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	81.0	82.0	87.0	88.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.89	6.09	20.89	6.09	18.41	1.61	18.41	1.61
-0.125	24.07	0.40	24.08	0.41	23.25	-0.42	23.24	-0.43
-0.250	24.86	0.36	24.86	0.36	24.81	0.31	24.81	0.31
-0.500	22.85	0.18	22.84	0.17	22.86	0.19	22.85	0.18
-1.000	19.15	0.32	19.15	0.32	19.13	0.30	19.12	0.29
-2.000	24.56	5.95	24.56	5.95	18.88	0.27	18.90	0.29

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
0	6.76	3.36	6.76	3.36	7.96	4.56	7.95	4.55
2	3.58	0.98	3.58	0.98	4.15	1.55	4.14	1.54

SURFACE ENERGY TERMS (LY/SEC)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.38	0.18	1.38	0.18	1.38	0.18	1.38	0.18
R(N)	-0.05	XXXX	-0.06	XXXX	0.04	XXXX	0.04	XXXX
C(C,0)	-0.93	XXXX	-0.94	XXXX	-0.46	XXXX	-0.47	XXXX
C(E,0)	1.49	XXXX	1.49	XXXX	0.48	XXXX	0.47	XXXX
D(S,0)	-0.60	XXXX	-0.60	XXXX	0.05	XXXX	0.04	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	6.56	XXXX	6.56	XXXX	3.18	XXXX	3.18	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.80	XXXX	0.80	XXXX	0.70	XXXX	0.70	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	679	679	684	679
TAPE NO.	100.0	101.0	102.0	103.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	9.05	0.69	7.57	-0.79	7.69	-0.66	9.20	0.84
900	9.08	-1.19	9.08	-1.19	9.19	-1.07	9.19	-1.07
800	9.11	1.28	9.11	1.28	9.19	1.36	9.20	1.37
700	9.14	1.84	9.14	1.84	9.19	1.90	9.19	1.89
600	9.17	1.92	9.17	1.92	9.21	1.96	9.21	1.96
500	9.18	2.55	9.19	2.56	9.21	2.58	9.21	2.58
400	9.21	3.42	9.22	3.43	9.23	3.44	9.24	3.45
300	9.35	6.52	9.35	6.52	9.36	6.53	9.36	6.53
200	9.81*	10.70	9.80*	10.69	9.82*	10.71	9.82*	10.71
100	8.29*	10.35	8.29*	10.35	8.30*	10.36	8.30*	10.36
32	4.38	2.99	4.39	3.00	4.39	3.00	4.39	3.01
8	3.33	2.33	3.34	2.34	3.34	2.34	3.34	2.34

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.27	0.02	-8.27	0.02	-8.27	0.02	-8.27	0.02
1000	-5.02*	-7.58	-5.49*	-8.05	-4.75*	-7.31	-4.20*	-6.76
900	-5.00*	-8.33	-4.99*	-8.32	-4.18*	-7.51	-4.18*	-7.51
800	-4.98*	-7.52	-4.97*	-7.51	-4.18*	-6.72	-4.19*	-6.73
700	-4.91*	-7.42	-4.90*	-7.41	-4.19*	-6.70	-4.19*	-6.70
600	-4.88*	-7.52	-4.88*	-7.52	-4.18*	-6.82	-4.18*	-6.82
500	-4.82*	-7.63	-4.82*	-7.63	-4.20*	-7.01	-4.19*	-7.00
400	-4.69*	-8.03	-4.68*	-8.02	-4.15*	-7.49	-4.15*	-7.49
300	-4.12*	-9.02	-4.12*	-9.02	-3.69*	-8.59	-3.69*	-8.59
200	-1.28*	-6.35	-1.28*	-6.35	-0.97*	-6.04	-0.97*	-6.04
100	2.90	-0.66	2.89	-0.67	3.06	-0.50	3.06	-0.50
32	3.94*	4.09	3.93*	4.08	3.95*	4.10	3.95*	4.10
8	3.95*	4.79	3.95*	4.79	3.95*	4.79	3.95*	4.79

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	100.		101.0		102.0		103.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.06	1.06	18.06	1.06	18.06	1.06	18.06	1.06
900	18.95	1.05	18.96	1.06	18.95	1.05	18.95	1.05
800	19.66	0.86	19.66	0.86	19.65	0.85	19.64	0.84
700	20.41	0.91	20.41	0.91	20.39	0.89	20.39	0.89
600	21.09	0.99	21.09	0.99	21.05	0.95	21.05	0.95
500	21.41	0.51	21.42	0.52	21.33	0.43	21.33	0.43
400	21.86	0.06	21.86	0.06	21.74	-0.06	21.75	-0.05
300	21.87	-0.43	21.87	-0.43	21.71	-0.59	21.72	-0.58
200	21.14	-0.96	21.14	-0.96	20.95	-1.15	20.95	-1.15
100	21.95	-0.05	21.94	-0.06	21.85	-0.15	21.85	-0.15
32	24.09	-0.51	24.08	-0.52	24.04	-0.56	24.04	-0.56
8	23.29	-1.31	23.29	-1.31	23.27	-1.33	23.27	-1.33
2	19.10	-4.90	19.12	-4.88	19.09	-4.91	19.11	-4.89
0	14.87	XXXX	14.90	XXXX	14.87	XXXX	14.90	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.96	0.55	11.96	0.55	12.01	0.60	12.01	0.60
900	12.56	0.36	12.57	0.37	12.61	0.41	12.61	0.41
800	12.92	-0.04	12.94	-0.02	12.98	0.02	12.97	0.01
700	13.56	-0.19	13.55	-0.20	13.61	-0.14	13.61	-0.14
600	14.33	0.11	14.33	0.11	14.38	0.16	14.38	0.16
500	15.61	0.63	15.61	0.63	15.67	0.69	15.66	0.68
400	15.97	-0.12	15.97	-0.12	16.03	-0.06	16.04	-0.05
300	16.49	-0.35	16.49	-0.35	16.54	-0.30	16.55	-0.29
200	15.94	-0.58	15.94	-0.58	16.02	-0.50	16.01	-0.51
100	14.81	-2.47	14.81	-2.47	14.84	-2.44	14.83	-2.45
32	13.42	0.80	13.42	0.80	13.44	0.82	13.44	0.82
8	13.53	0.74	13.54	0.75	13.54	0.75	13.54	0.75
2	14.88	14.88	14.89	14.89	14.89	14.89	14.88	14.88
0	16.24	XXXX	16.25	XXXX	16.25	XXXX	16.24	XXXX

CASE CPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	100.0		101.0		102.0		103.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	14.94	1.34	14.95	1.35	14.94	1.34	14.95	1.35
-0.125	23.78	-0.33	23.78	-0.33	23.78	-0.33	23.77	-0.34
-0.250	24.94	0.11	24.95	0.12	24.95	0.12	24.94	0.11
-0.500	22.87	0.04	22.86	0.03	22.87	0.04	22.87	0.04
-1.000	19.12	0.12	19.12	0.12	19.12	0.12	19.12	0.12
-2.000	18.90	0.12	18.90	0.12	18.90	0.12	18.91	0.13

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.17	3.87	5.17	3.87	5.17	3.87	5.17	3.87
2	2.60	1.70	2.60	1.70	2.60	1.70	2.60	1.70

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	0.31	0.11	0.31	0.11	0.31	0.11	0.31	0.11
R(N)	-0.15	XXXX	-0.15	XXXX	-0.16	XXXX	-0.15	XXXX
G(C,0)	-0.39	XXXX	-0.40	XXXX	-0.40	XXXX	-0.40	XXXX
G(E,0)	0.26	XXXX	0.26	XXXX	0.26	XXXX	0.26	XXXX
G(S,0)	-0.01	XXXX	-0.01	XXXX	-0.01	XXXX	-0.01	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.72	XXXX	0.72	XXXX	0.70	XXXX	0.72	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.30	XXXX	0.40	XXXX	0.30	XXXX	0.30	XXXX

CASE CPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KICM SG/SEC)	679	679	674	669
TAPE NO.	104.0	105.0	106.0	107.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	9.20	0.84	7.70	-0.66	7.57	-0.78	9.05	0.69
900	9.19	-1.07	9.19	-1.07	9.08	-1.19	9.08	-1.19
800	9.19	1.36	9.19	1.36	9.11	1.28	9.10	1.27
700	9.19	1.89	9.19	1.90	9.13	1.83	9.14	1.84
600	9.21	1.96	9.21	1.96	9.17	1.92	9.17	1.92
500	9.22	2.59	9.21	2.58	9.19	2.56	9.19	2.56
400	9.23	3.44	9.23	3.44	9.21	3.42	9.21	3.42
300	9.36	6.53	9.36	6.53	9.35	6.52	9.35	6.52
200	9.82*	10.71	9.82*	10.71	9.80*	10.69	9.80*	10.69
100	8.30*	10.36	8.30*	10.36	8.29*	10.35	8.30*	10.36
32	4.39	3.00	4.39	3.00	4.38	2.99	4.38	2.99
8	3.34	2.34	3.33	2.33	3.33	2.33	3.33	2.33

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.27	0.02	-8.27	0.02	-8.28	0.01	-8.27	0.02
1000	-4.20*	-6.76	-4.75*	-7.31	-5.49*	-8.05	-5.02*	-7.58
900	-4.18*	-7.51	-4.18*	-7.51	-4.99*	-8.32	-5.00*	-8.33
800	-4.18*	-6.72	-4.18*	-6.72	-4.97*	-7.51	-4.98*	-7.52
700	-4.19*	-6.70	-4.19*	-6.70	-4.90*	-7.41	-4.91*	-7.42
600	-4.18*	-6.82	-4.18*	-6.82	-4.88*	-7.52	-4.88*	-7.52
500	-4.19*	-7.00	-4.19*	-7.00	-4.82*	-7.63	-4.82*	-7.63
400	-4.15*	-7.49	-4.15*	-7.49	-4.69*	-8.03	-4.69*	-8.03
300	-3.69*	-8.59	-3.69*	-8.59	-4.12*	-9.02	-4.12*	-9.02
200	-0.97*	-6.04	-0.97*	-6.04	-1.27*	-6.34	-1.28*	-6.35
100	3.06	-0.50	3.06	-0.50	2.89	-0.66	2.89	-0.66
32	3.95*	4.10	3.95*	4.10	3.93*	4.08	3.94*	4.09
8	3.95*	4.79	3.95*	4.79	3.95*	4.79	3.95*	4.79

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	104.0		105.0		106.0		107.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.06	1.06	18.06	1.06	18.05	1.05	18.06	1.06
900	18.95	1.05	18.94	1.04	18.96	1.06	18.95	1.05
800	19.64	0.84	19.65	0.85	19.68	0.88	19.67	0.87
700	20.38	0.88	20.38	0.88	20.42	0.92	20.41	0.91
600	21.04	0.94	21.05	0.95	21.09	0.99	21.09	0.99
500	21.33	0.43	21.33	0.43	21.41	0.51	21.41	0.51
400	21.75	-0.05	21.74	-0.06	21.86	0.06	21.86	0.06
300	21.72	-0.58	21.72	-0.58	21.87	-0.43	21.87	-0.43
200	20.96	-1.14	20.95	-1.15	21.14	-0.96	21.14	-0.96
100	21.84	-0.16	21.84	-0.16	21.95	-0.05	21.95	-0.05
32	24.08	-0.52	24.09	-0.51	24.12	-0.48	24.14	-0.46
8	23.67	-0.93	23.68	-0.92	23.69	-0.91	23.69	-0.91
2	20.86	-3.14	20.87	-3.13	20.87	-3.13	20.88	-3.12
0	18.01	XXXX	18.01	XXXX	18.01	XXXX	18.02	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.01	0.60	11.99	0.58	11.96	0.55	11.95	0.54
900	12.61	0.41	12.61	0.41	12.56	0.36	12.56	0.36
800	12.97	0.01	12.98	0.02	12.93	-0.03	12.93	-0.03
700	13.62	-0.13	13.61	-0.14	13.56	-0.19	13.55	-0.20
600	14.38	0.16	14.38	0.16	14.34	0.12	14.33	0.11
500	15.66	0.68	15.66	0.68	15.61	0.63	15.61	0.63
400	16.03	-0.06	16.03	-0.06	15.97	-0.12	15.97	-0.12
300	16.55	-0.29	16.55	-0.29	16.48	-0.36	16.49	-0.35
200	16.01	-0.51	16.02	-0.50	15.94	-0.58	15.94	-0.58
100	14.84	-2.44	14.83	-2.45	14.81	-2.47	14.81	-2.47
32	13.50	0.88	13.50	0.88	13.49	0.87	13.48	0.86
8	14.02	1.23	14.02	1.23	14.02	1.23	14.02	1.23
2	16.73	16.73	16.73	16.73	16.74	16.74	16.75	16.75
0	19.49	XXXX	19.49	XXXX	19.51	XXXX	19.52	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	104.0	105.0	106.0	107.0
INTERVAL	1HR	1HR	1HR	1HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.78	7.18	20.77	7.17	20.78	7.18	20.78	7.18
-0.125	24.31	0.20	24.31	0.20	24.30	0.19	24.29	0.18
-0.250	24.96	0.13	24.96	0.13	24.96	0.13	24.96	0.13
-0.500	22.87	0.04	22.86	0.03	22.86	0.03	22.85	0.02
-1.000	19.13	0.13	19.12	0.12	19.13	0.13	19.13	0.13
-2.000	24.59	5.81	24.59	5.81	24.59	5.81	24.59	5.81

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.17	3.87	5.17	3.87	5.17	3.87	5.17	3.87
2	2.61	1.71	2.61	1.71	2.61	1.71	2.61	1.71

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	0.32	0.12	0.31	0.11	0.31	0.11	0.31	0.11
R(N)	-0.52	XXXX	-0.52	XXXX	-0.52	XXXX	-0.52	XXXX
Q(C,0)	-0.26	XXXX	-0.26	XXXX	-0.26	XXXX	-0.26	XXXX
Q(E,0)	0.53	XXXX	0.53	XXXX	0.53	XXXX	0.53	XXXX
Q(S,0)	-0.79	XXXX	-0.79	XXXX	-0.78	XXXX	-0.78	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.70	XXXX	0.70	XXXX	0.70	XXXX	0.70	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.30	XXXX	0.20	XXXX	0.10	XXXX	0.30	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(KM SQ/SEC)	479	494	484	494
TAPE NO.	109.0	109.0	110.0	111.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
1000	8.82	0.46	7.33	-1.03	7.46	-0.90	8.97	0.61
900	8.85	-1.42	8.85	-1.42	8.96	-1.31	8.96	-1.31
800	8.88	1.05	8.88	1.05	8.96	1.13	8.96	1.13
700	8.91	1.61	8.91	1.61	8.96	1.66	8.95	1.65
600	8.93	1.68	8.94	1.69	8.98	1.73	8.97	1.72
500	8.95	2.32	8.95	2.32	8.99	2.36	8.98	2.35
400	8.98	3.19	8.98	3.19	9.00	3.21	9.01	3.22
300	9.11	6.28	9.11	6.28	9.12	6.30	9.12	6.29
200	9.61*	10.50	9.61*	10.50	9.62*	10.51	9.62*	10.51
100	8.09*	10.15	8.08*	10.14	8.09*	10.15	8.09*	10.15
32	4.08	2.69	4.07	2.69	4.08	2.69	4.09	2.70
8	3.09	2.09	3.09	2.09	3.09	2.09	3.09	2.09

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.92	1.37	-6.93	1.36	-6.93	1.36	-6.92	1.37
1000	-5.04*	-7.60	-5.40*	-7.96	-4.66*	-7.22	-4.22*	-6.78
900	-5.02*	-8.35	-5.02*	-8.35	-4.21*	-7.54	-4.21*	-7.54
800	-5.01*	-7.55	-5.00*	-7.54	-4.20*	-6.74	-4.21*	-6.75
700	-4.93*	-7.44	-4.93*	-7.44	-4.22*	-6.73	-4.21*	-6.72
600	-4.90*	-7.54	-4.91*	-7.55	-4.20*	-6.84	-4.20*	-6.84
500	-4.85*	-7.66	-4.85*	-7.66	-4.22*	-7.03	-4.22*	-7.03
400	-4.72*	-8.06	-4.72*	-8.06	-4.18*	-7.52	-4.18*	-7.52
300	-4.19*	-9.09	-4.19*	-9.09	-3.76*	-8.66	-3.77*	-8.67
200	-1.31*	-6.38	-1.31*	-6.38	-1.01*	-6.08	-1.01*	-6.08
100	2.93	-0.63	2.94	-0.62	3.10	-0.46	3.10	-0.46
32	3.94*	4.09	3.94*	4.09	3.95*	4.10	3.95*	4.10
8	3.98*	4.82	3.98*	4.82	3.98*	4.82	3.98*	4.82

CASE DPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	108.0	109.0	110.0	111.0
INTERVAL	1HR	1HR	1HR	1HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.05	1.05	18.06	1.06	18.06	1.06	18.06	1.06
900	18.95	1.05	18.95	1.05	18.95	1.05	18.94	1.04
800	19.66	0.86	19.66	0.86	19.64	0.84	19.64	0.84
700	20.42	0.92	20.41	0.91	20.38	0.88	20.38	0.88
600	21.09	0.99	21.09	0.99	21.05	0.95	21.05	0.95
500	21.41	0.51	21.41	0.51	21.33	0.43	21.32	0.42
400	21.87	0.07	21.88	0.08	21.78	-0.04	21.76	-0.04
300	21.91	-0.39	21.90	-0.40	21.74	-0.56	21.75	-0.55
200	21.09	-1.01	21.11	-0.99	20.90	-1.20	20.91	-1.19
100	21.93	-0.07	21.93	-0.07	21.83	-0.17	21.82	-0.18
32	24.18	-0.42	24.18	-0.42	24.13	-0.47	24.13	-0.47
8	23.42	-1.18	23.42	-1.18	23.41	-1.19	23.41	-1.19
2	19.14	-4.86	19.12	-4.88	19.13	-4.87	19.12	-4.88
0	14.81	XXXX	14.79	XXXX	14.80	XXXX	14.78	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.95	0.54	11.96	0.55	11.99	0.58	12.00	0.59
900	12.56	0.36	12.56	0.36	12.61	0.41	12.61	0.41
800	12.92	-0.04	12.93	-0.03	12.97	0.01	12.97	0.01
700	13.55	-0.20	13.55	-0.20	13.61	-0.14	13.61	-0.14
600	14.31	0.09	14.31	0.09	14.36	0.14	14.36	0.14
500	15.63	0.65	15.64	0.66	15.70	0.72	15.69	0.71
400	15.96	-0.13	15.96	-0.13	16.02	-0.07	16.03	-0.06
300	16.52	-0.32	16.53	-0.31	16.59	-0.25	16.59	-0.25
200	15.95	-0.57	15.95	-0.57	16.02	-0.50	16.02	-0.50
100	14.79	-2.49	14.80	-2.48	14.83	-2.45	14.83	-2.45
32	13.36	0.74	13.36	0.74	13.37	0.75	13.37	0.75
8	13.49	0.70	13.49	0.70	13.49	0.70	13.49	0.70
2	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90
0	16.33	XXXX	16.33	XXXX	16.32	XXXX	16.32	XXXX

CASE DPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	108.0	109.0	110.0	111.0
INTERVAL	1HR	1HR	1HR	1HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	14.94	1.34	14.94	1.34	14.94	1.34	14.94	1.34
-0.125	23.78	-0.33	23.78	-0.33	23.78	-0.33	23.79	-0.32
-0.250	24.94	0.11	24.94	0.11	24.95	0.12	24.94	0.11
-0.500	22.86	0.03	22.87	0.04	22.86	0.03	22.85	0.02
-1.000	19.12	0.12	19.12	0.12	19.12	0.12	19.12	0.12
-2.000	18.91	0.13	18.91	0.13	18.91	0.13	18.91	0.13

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.05	3.75	5.05	3.75	5.05	3.75	5.05	3.75
2	2.53	1.63	2.53	1.63	2.54	1.64	2.54	1.64

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	0.31	0.11	0.31	0.11	0.31	0.11	0.31	0.11
R(N)	-0.13	XXXX	-0.13	XXXX	-0.13	XXXX	-0.13	XXXX
Q(C,G)	-0.28	XXXX	-0.28	XXXX	-0.28	XXXX	-0.28	XXXX
Q(E,0)	0.19	XXXX	0.19	XXXX	0.19	XXXX	0.19	XXXX
Q(S,0)	-0.03	XXXX	-0.03	XXXX	-0.04	XXXX	-0.04	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.46	XXXX	0.48	XXXX	0.48	XXXX	0.48	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.10	XXXX	0.10	XXXX	0.20	XXXX	0.20	XXXX

CASE DPG 1 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KCM SC/SEC)	479	474	484	494
TAPE NO.	112.0	113.0	114.0	115.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
1000	8.97	0.61	7.46	-0.90	7.33	-1.03	8.82	0.46
900	8.96	-1.31	8.96	-1.31	8.85	-1.42	8.85	-1.42
800	8.96	1.13	8.96	1.13	8.73	0.90	8.72	0.89
700	8.95	1.65	8.95	1.65	8.71	1.41	8.71	1.41
600	8.98	1.73	8.98	1.73	8.74	1.49	8.74	1.49
500	8.96	2.35	8.98	2.35	8.79	2.16	8.79	2.16
400	9.00	3.21	9.00	3.21	8.86	3.07	8.87	3.08
300	9.12	6.30	9.12	6.30	9.05	6.22	9.05	6.22
200	9.62*	10.51	9.62*	10.51	9.62*	10.51	9.62*	10.51
100	8.10*	10.16	8.09*	10.15	8.09*	10.15	8.09*	10.15
32	4.08	2.69	4.08	2.69	4.10	2.71	4.10	2.71
8	3.09	2.09	3.09	2.09	3.10	2.10	3.09	2.09

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-6.92	1.37	-6.92	1.37	-6.93	1.36	-6.92	1.37
1000	-4.22*	-6.78	-4.65*	-7.22	-5.40*	-7.96	-5.05*	-7.61
900	-4.20*	-7.53	-4.21*	-7.54	-5.02*	-8.35	-5.02*	-8.35
800	-4.21*	-6.75	-4.21*	-6.75	-4.97*	-7.51	-4.98*	-7.52
700	-4.21*	-6.72	-4.21*	-6.72	-4.90*	-7.41	-4.90*	-7.41
600	-4.20*	-6.84	-4.21*	-6.85	-4.87*	-7.51	-4.87*	-7.51
500	-4.22*	-7.03	-4.22*	-7.03	-4.81*	-7.62	-4.82*	-7.63
400	-4.19*	-7.53	-4.18*	-7.52	-4.70*	-8.04	-4.70*	-8.04
300	-3.76*	-8.66	-3.77*	-8.67	-4.18*	-9.08	-4.18*	-9.08
200	-1.01*	-6.08	-1.01*	-6.08	-1.31*	-6.38	-1.31*	-6.38
100	3.10	-0.45	3.10	-0.45	2.93	-0.63	2.93	-0.63
32	3.95*	4.10	3.95*	4.10	3.93*	4.08	3.93*	4.08
8	3.98*	4.82	3.98*	4.82	3.98*	4.82	3.98*	4.82

CASE LPG 1 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	112.0		113.0		114.0		115.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	18.06	1.06	18.07	1.07	18.06	1.06	18.06	1.06
900	18.94	1.04	18.95	1.05	18.96	1.06	18.95	1.05
800	19.64	0.84	19.64	0.84	19.66	0.86	19.66	0.86
700	20.38	0.88	20.38	0.88	20.42	0.92	20.41	0.91
600	21.05	0.95	21.05	0.95	21.09	0.99	21.09	0.99
500	21.33	0.43	21.33	0.43	21.40	0.50	21.40	0.50
400	21.75	-0.05	21.75	-0.05	21.87	0.07	21.87	0.07
300	21.74	-0.56	21.74	-0.56	21.91	-0.39	21.91	-0.39
200	20.91	-1.19	20.91	-1.19	21.09	-1.01	21.10	-1.00
100	21.82	-0.18	21.82	-0.18	21.93	-0.07	21.93	-0.07
32	24.17	-0.43	24.17	-0.43	24.21	-0.39	24.21	-0.39
8	23.76	-0.84	23.76	-0.84	23.78	-0.82	23.78	-0.82
2	20.96	-3.04	20.96	-3.04	20.98	-3.02	20.97	-3.03
0	18.12	XXXX	18.12	XXXX	18.13	XXXX	18.12	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.00	0.59	11.99	0.58	11.96	0.55	11.95	0.54
900	12.61	0.41	12.61	0.41	12.59	0.39	12.56	0.36
800	12.98	0.02	12.98	0.02	12.93	-0.03	12.92	-0.04
700	13.61	-0.14	13.61	-0.14	13.56	-0.19	13.55	-0.20
600	14.36	0.14	14.37	0.15	14.31	0.09	14.31	0.09
500	15.70	0.72	15.69	0.71	15.64	0.66	15.65	0.67
400	16.02	-0.07	16.02	-0.07	15.97	-0.12	15.97	-0.12
300	16.59	-0.25	16.59	-0.25	16.52	-0.32	16.52	-0.32
200	16.02	-0.50	16.02	-0.50	15.95	-0.57	15.96	-0.56
100	14.83	-2.45	14.83	-2.45	14.81	-2.47	14.81	-2.47
32	13.42	0.80	13.42	0.80	13.41	0.79	13.41	0.79
8	13.91	1.12	13.92	1.13	13.91	1.12	13.91	1.12
2	16.91	16.91	16.92	16.92	16.92	16.92	16.91	16.91
0	19.96	XXXX	19.97	XXXX	19.97	XXXX	19.96	XXXX

CASE GPG 1 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	112.0	113.0	114.0	115.0
INTERVAL	1HR	1HR	1HR	1HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.76	7.16	20.77	7.17	20.76	7.16	20.75	7.15
-0.125	24.31	0.20	24.30	0.19	24.29	0.18	24.30	0.19
-0.250	24.96	0.13	24.96	0.13	24.96	0.13	24.96	0.13
-0.500	22.86	0.03	22.85	0.02	22.86	0.03	22.86	0.03
-1.000	19.13	0.13	19.14	0.14	19.13	0.13	19.13	0.13
-2.000	24.53	5.75	24.54	5.76	24.54	5.76	24.54	5.76

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.04	3.74	5.04	3.74	5.05	3.75	5.05	3.75
2	2.54	1.64	2.54	1.64	2.54	1.64	2.54	1.64

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	0.31	0.11	0.31	0.11	0.31	0.11	0.31	0.11
R(N)	-0.53	XXXX	-0.53	XXXX	-0.53	XXXX	-0.52	XXXX
Q(C,0)	-0.18	XXXX	-0.18	XXXX	-0.18	XXXX	-0.18	XXXX
Q(E,0)	0.41	XXXX	0.40	XXXX	0.40	XXXX	0.40	XXXX
Q(S,0)	-0.75	XXXX	-0.75	XXXX	-0.75	XXXX	-0.75	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.46	XXXX	0.46	XXXX	0.46	XXXX	0.48	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.20	XXXX	0.20	XXXX	0.40	XXXX	0.30	XXXX

CASE DPG 2 TAPE LOG

TAPE NO.	POST INT	SM	RMG LG	SEC	ADV	DEC	REMARKS
133.	12	A	V	A	N	U	NONE
134.	12	A	V	A	N	I	NONE
135.	12	A	V	A	F	I	NONE
136.	12	A	V	A	F	U	NONE
137.	12	B	V	A	F	U	NONE
138.	12	B	V	A	F	I	NONE
139.	12	B	V	A	N	I	NONE
140.	12	B	V	A	N	U	NONE
141.	12	A	V	F	N	U	NONE
142.	12	A	V	F	N	I	NONE
143.	12	A	V	F	F	U	NONE
144.	12	B	V	F	F	U	NONE
145.	12	B	V	F	N	I	NONE
146.	12	B	V	F	N	U	NONE
156.	12	A	V	A	N	U	NONE
157.	6	A	V	A	N	U	NONE
158.	6	A	V	A	N	I	NONE
159.	6	A	V	A	F	U	NONE
160.	6	A	V	F	N	U	NONE
161.	6	A	V	F	N	I	NONE
162.	6	A	V	F	F	U	NONE
163.	6	B	V	F	F	U	NONE
164.	6	B	V	F	N	I	NONE
165.	6	B	V	F	N	U	NONE
166.	6	B	F	A	N	U	NONE
167.	6	B	F	A	F	I	NONE
168.	6	B	F	A	F	U	NONE
169.	6	A	F	A	F	U	NONE
170.	6	A	F	A	N	I	NONE
171.	6	A	F	A	N	U	NONE
172.	6	A	F	F	F	U	NONE
173.	6	A	F	F	F	I	NONE
174.	6	A	F	F	N	U	NONE
176.	2	A	V	A	N	U	NONE
177.	2	A	V	A	N	I	NONE
178.	2	A	V	A	F	U	NONE
179.	2	A	V	F	N	U	NONE
180.	2	A	V	F	N	I	NONE
181.	2	A	V	F	F	U	NONE
182.	2	B	V	F	F	U	NONE

CASE DPG 2 TAPE LOG

TAPE NO.	FCST INT	SM	KMB DB	SCG	ADV	GEL	REMARKS
183.	2	B	V	F	N	I	NONE
184.	2	B	V	F	N	U	NONE
185.	2	B	V	A	N	U	NONE
186.	2	B	F	A	N	U	NONE
187.	2	B	F	A	F	I	NONE
188.	2	B	F	A	F	U	NONE
189.	2	A	F	A	F	U	NONE
190.	2	A	F	A	N	I	NONE
191.	2	A	F	A	N	U	NONE
192.	2	A	F	F	F	U	NONE
194.	2	A	F	F	N	U	NONE
196.	1	A	V	A	N	U	NONE
197.	1	A	V	A	N	I	NONE
198.	1	A	V	A	F	U	NONE
199.	1	A	V	F	N	U	NONE
200.	1	A	V	F	N	I	NONE
201.	1	A	V	F	F	I	NONE
202.	1	A	V	F	F	U	NONE
203.	1	B	V	F	F	U	NONE
204.	1	B	V	F	N	I	NONE
205.	1	B	V	F	N	U	NONE
206.	1	B	F	A	N	U	NONE
207.	1	B	F	A	F	I	NONE
208.	1	B	F	A	F	U	NONE

DPG 02 INITIAL CONDITIONS - 0500C 13 AUGUST 1969
(page 1 of 2 pages)

SOIL PARAMETERS

T'_0 = 4.06 °C T'_{-1} = 20.83 °C $\sqrt{\mu\lambda}$ = 0.036 cal/cm^{4}deg^{2}sec

$T'_{-1/8}$ = 24.44 °C T'_{-2} = 20.67 °C Z_o = 2.0 cm

$T'_{-1/4}$ = 25.78 °C λ = 0.59 cal/cm^{3}deg S_o = .0004 cal/cm^{2}sec mb

$T'_{-1/2}$ = 24.67 °C μ/λ = .0037 cm^2/sec G = 3500 cm^{2}sec deg/cal

RADIATION PARAMETERS

Local Time = 0500 C e'_8 = 7.69 mb F_c = 1.00

ε = 0.950 j = 0.26

δ = 14.972 deg

ϕ = 40.2 deg m = 0.620

$R \times 10^5$ = 1.16 °C/sec N = 0.20 n = 0.0415 mb$^{-1/2}$

Cloud Class = 1 ψ = 0.975 H = -90.0 deg

HORIZONTAL GRADIENTS

$\frac{\partial e}{\partial x}_{200}$ = 0.85 mb/100 km $\frac{\partial e}{\partial x}_{600}$ = 0.61 mb/100 km $\frac{\partial e}{\partial x}_{1000}$ = 0.37 mb/100 km

$\frac{\partial e}{\partial y}_{200}$ = -1.05 mb/100 km $\frac{\partial e}{\partial y}_{600}$ = -0.99 mb/100 km $\frac{\partial e}{\partial y}_{1000}$ = -0.94 mb/100 km

$\frac{\partial T}{\partial x}_{200}$ = -0.45 °C/100 km $\frac{\partial T}{\partial x}_{600}$ = -0.42 °C/100 km $\frac{\partial T}{\partial x}_{1000}$ = -0.38 °C/100 km

$\frac{\partial T}{\partial y}_{200}$ = -0.79 °C/100 km $\frac{\partial T}{\partial y}_{600}$ = -0.75 °C/100 km $\frac{\partial T}{\partial y}_{1000}$ = -0.72 °C/100 km

DPG 02 INITIAL CONDITIONS - 0500C 13 AUGUST 1969
(page 2 of 2 pages)

WIND COMPONENTS (m/sec)				TEMPERATURE (°C)		VAPOR PRESSURE (mb)	
u_8	= 2.14	v_8	= 2.38	T_8	= 14.50	e_8	= 7.69
u_{32}	= 3.10	v_{32}	= 1.13	T_{32}	= 15.90	e_{32}	= 7.26
u_{100}	= -0.50	v_{100}	= -2.84	T_{100}	= 16.15	e_{100}	= 9.08
u_{200}	= -2.83	v_{200}	= -4.01	T_{200}	= 18.40	e_{200}	= 9.44
u_{300}	= -4.57	v_{300}	= -1.05	T_{300}	= 18.40	e_{300}	= 9.00
u_{400}	= -4.55	v_{400}	= -0.88	T_{400}	= 18.40	e_{400}	= 8.64
u_{500}	= -4.55	v_{500}	= -0.88	T_{500}	= 18.40	e_{500}	= 8.20
u_{600}	= -4.55	v_{600}	= -0.88	T_{600}	= 18.37	e_{600}	= 7.78
u_{700}	= -4.55	v_{700}	= -0.88	T_{700}	= 18.00	e_{700}	= 7.58
u_{800}	= -4.55	v_{800}	= -0.88	T_{800}	= 17.27	e_{800}	= 7.20
u_{900}	= -4.55	v_{900}	= -0.88	T_{900}	= 16.57	e_{900}	= 6.84
u_{1000}	= -4.55	v_{1000}	-0.88	T_{1000}	= 16.02	e_{1000}	= 6.58

ADVECTION TERMS (sec^{-1})

$\alpha^1_{200} = 0.22 \times 10^{-5}$ $\alpha^1_{600} = 0.16 \times 10^{-5}$ $\alpha^1_{1000} = 0.10 \times 10^{-5}$

$\beta^1_{200} = -0.21 \times 10^{-5}$ $\beta^1_{600} = -0.62 \times 10^{-5}$ $\beta^1_{1000} = -1.03 \times 10^{-5}$

$\alpha^2_{200} = -0.14 \times 10^{-5}$ $\alpha^2_{600} = -0.42 \times 10^{-5}$ $\alpha^2_{1000} = -0.71 \times 10^{-5}$

$\beta^2_{200} = 2.06 \times 10^{-5}$ $\beta^2_{600} = 1.05 \times 10^{-5}$ $\beta^2_{1000} = 0.03 \times 10^{-5}$

CONTOUR GRADIENT TERMS

	0 hour	1 hour	2 hour	6 hour	12 hour	
Azimuth	12.0	350.	350.	20.	40.	(deg from North)
Magnitude	28.84	32.11	24.08	16.06	16.06	(ft/100 km)

CASE DPG 2 COMPARISON DATA FROM DUGWAY (1 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-10.04	-1.77		
1000	-0.93	-1.83	16.70	4.65
900	-1.12	-1.73	17.50	5.16
800	-1.32	-1.58	17.90	5.68
700	-1.53	-1.38	18.40	6.43
600	-1.91	-1.72	18.70	7.06
500	-2.29	-2.07	19.00	7.58
400	-2.68	-2.41	19.40	8.14
300	-2.33	-2.03	19.20	8.19
200	-0.78	-0.68	18.90	7.58
100	-0.78	-0.68	18.00	6.52
32	3.23	-1.05	17.40	5.52
8	2.69	-0.28	17.10	5.84
2	1.90	0.10	18.60	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)	
-0.0	6.79
-0.125	23.50
-0.250	24.72
-0.500	23.83
-1.000	20.00
-2.000	19.78

WIND SPEED (M/SEC)

0	2.70
2	1.90

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	6.60	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE CPG 2 COMPARISON DATA FROM DUGWAY (2 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-7.53	-1.33		
1000	-1.49	-0.40	16.30	6.81
900	-1.50	-0.35	16.90	7.06
800	-1.95	-0.67	17.20	7.32
700	-1.88	-0.84	17.80	7.58
600	-2.11	-1.48	18.20	7.85
500	-1.98	-2.37	18.80	8.14
400	-1.58	-2.24	19.00	8.43
300	-2.03	-2.33	18.90	8.60
200	-2.42	-0.88	18.60	8.67
100	-2.58	0.0	18.50	8.73
32	2.70	-1.32	18.60	5.59
8	2.90	-1.35	19.50	5.59
2	2.38	-0.77	19.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	22.50
-0.125	22.22
-0.250	23.89
-0.500	23.17
-1.000	19.39
-2.000	19.22

WIND SPEED (M/SEC)

8	3.20
2	2.50

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	11.90	G(E,0)=	XXXX
R(N)=	XXXX	G(S,0)=	XXXX
G(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 2 COMPARISON DATA FROM DUGWAY (6 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-4.79	1.74		
1000	-0.84	1.29	17.50	12.37
900	-1.09	1.09	18.40	13.13
800	-1.25	0.91	19.20	13.94
700	-1.18	0.99	20.00	14.79
600	-0.99	1.18	21.00	15.48
500	0.99	1.18	22.10	13.31
400	1.93	-0.70	23.20	11.48
300	1.21	-1.67	24.40	9.68
200	1.46	-1.46	25.60	8.25
100	1.58	-1.32	26.70	7.06
32	1.71	-1.54	26.60	5.63
8	1.61	-1.50	27.20	5.38
2	1.20	-1.34	27.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	48.30
-0.125	20.33
-0.250	20.83
-0.500	20.67
-1.000	17.17
-2.000	17.00

WIND SPEED (M/SEC)

8	2.20
2	1.80

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	22.30	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 2 COMPARISON DATA FROM DUGWAY (12 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-3.91	3.28		
1000	0.22	-6.17	21.20	6.48
900	0.22	-6.17	22.20	6.66
800	0.20	-5.66	23.50	7.06
700	0.20	-5.66	24.40	7.32
600	0.63	-5.11	25.40	7.58
500	1.41	-3.87	26.40	7.91
400	1.80	-3.12	27.50	8.14
300	1.98	-2.37	28.60	8.60
200	1.32	-1.58	29.20	8.73
100	0.66	-0.79	30.10	8.91
32	-1.63	-0.98	30.80	6.93
8	-1.36	-1.18	30.90	6.59
2	-1.15	-0.96	30.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	36.10
-0.125	24.78
-0.250	20.94
-0.500	19.83
-1.000	16.67
-2.000	16.50

WIND SPEED (M/SEC)

8	1.80
2	1.50

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(O)= 1.60 Q(E,O)= XXXX

R(N)= XXXX Q(S,O)= XXXX

Q(C,O)= XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	3154	2914	5709	6069
TAPE NO.	133.0	134.0	135.0	136.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-3.88	0.03	-3.87	0.03	-3.87	0.03	-3.88	0.03
1000	-3.14*	-3.36	-3.32*	-3.54	-6.04*	-6.26	-6.70*	-6.92
900	-4.03*	-4.25	-3.98*	-4.20	-6.56*	-6.78	-6.68*	-6.90
800	-4.41*	-4.61	-4.34*	-4.54	-6.57*	-6.77	-6.60*	-6.80
700	-4.63*	-4.83	-4.56*	-4.76	-6.50*	-6.70	-6.50*	-6.70
600	-4.75*	-5.38	-4.68*	-5.31	-6.41*	-7.04	-6.39*	-7.02
500	-4.82*	-6.23	-4.76*	-6.17	-6.29*	-7.70	-6.27*	-7.68
400	-4.85*	-6.65	-4.80*	-6.60	-6.16*	-7.96	-6.12*	-7.92
300	-4.83*	-6.81	-4.78*	-6.76	-5.98*	-7.96	-5.95*	-7.93
200	-4.75*	-6.07	-4.71*	-6.03	-5.75*	-7.07	-5.71*	-7.03
100	-4.54*	-5.20	-4.50*	-5.16	-5.35*	-6.01	-5.32*	-5.98
32	-4.06	-2.44	-4.03	-2.41	-4.70	-3.08	-4.67	-3.04
8	-3.36	-2.00	-3.34	-1.98	-3.85	-2.49	-3.82	-2.46

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	3.28	0.01	3.28	0.01	3.28	0.0	3.28	0.01
1000	7.60*	13.77	6.21*	12.38	5.84*	12.01	8.07*	14.24
900	6.55*	12.72	6.06*	12.23	6.22*	12.39	7.23*	13.40
800	5.86*	11.52	5.52*	11.18	6.04*	11.70	6.76*	12.42
700	5.33*	10.99	5.06*	10.72	5.83*	11.49	6.42*	12.08
600	4.92*	10.03	4.69*	9.80	5.62*	10.73	6.14*	11.25
500	4.57*	8.44	4.36*	8.23	5.40*	9.27	5.87*	9.74
400	4.24*	7.36	4.05*	7.17	5.18*	8.30	5.60*	8.72
300	3.92*	6.29	3.74*	6.11	4.93*	7.30	5.32*	7.69
200	3.56*	5.14	3.39*	4.97	4.62*	6.20	4.98*	6.56
100	3.12*	3.91	2.97*	3.76	4.18*	4.97	4.50*	5.29
32	2.57*	3.55	2.44*	3.42	3.55*	4.53	3.82*	4.80
8	2.04*	3.22	1.93*	3.11	2.85*	4.03	3.07*	4.25

CASE LPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	133.0	134.0	135.0	136.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.37	-0.83	20.36	-0.84	20.10	-1.10	20.11	-1.09
900	20.81	-1.39	20.82	-1.38	20.51	-1.69	20.52	-1.68
800	20.99	-2.51	21.01	-2.49	20.68	-2.82	20.69	-2.81
700	21.14	-3.26	21.15	-3.25	20.81	-3.59	20.81	-3.59
600	21.21	-4.19	21.24	-4.16	20.86	-4.54	20.86	-4.54
500	21.29	-5.11	21.33	-5.07	20.92	-5.48	20.93	-5.47
400	21.33	-6.17	21.36	-6.14	20.94	-6.56	20.94	-6.56
300	21.36	-7.24	21.41	-7.19	20.96	-7.64	20.95	-7.65
200	21.34	-7.86	21.39	-7.81	20.91	-8.29	20.91	-8.29
00	21.27	-8.83	21.33	-8.77	20.82	-9.28	20.81	-9.29
32	21.02	-9.78	21.07	-9.73	20.51	-10.29	20.48	-10.32
8	20.51	-10.39	20.57	-10.33	19.99	-10.91	19.99	-10.91
2	19.21	-11.69	19.26	-11.64	18.76	-12.14	18.77	-12.13
0	17.85	XXXX	17.88	XXXX	17.42	XXXX	17.43	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.06	5.58	12.01	5.53	10.64	4.16	10.66	4.18
900	12.59	5.93	12.56	5.90	11.19	4.53	11.20	4.54
800	12.93	5.87	12.92	5.86	11.54	4.48	11.54	4.48
700	13.26	5.94	13.26	5.94	11.85	4.53	11.86	4.54
600	13.55	5.97	13.56	5.98	12.12	4.54	12.12	4.54
500	13.86	5.95	13.87	5.96	12.41	4.50	12.42	4.51
400	14.15	6.01	14.17	6.03	12.66	4.52	12.66	4.52
300	14.49	5.89	14.49	5.89	12.95	4.35	12.96	4.36
200	14.81	6.08	14.82	6.09	13.28	4.55	13.26	4.53
100	15.22	6.31	15.25	6.34	13.69	4.76	13.69	4.78
32	15.71	8.78	15.75	8.82	14.15	7.22	14.13	7.20
8	16.20	9.61	16.26	9.67	14.61	8.02	14.57	7.98
2	17.18	17.18	17.27	17.27	15.43	15.43	15.37	15.37
0	18.21	XXXX	18.34	XXXX	16.34	XXXX	16.25	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	133.0	134.0	135.0	136.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	22.11	-15.99	22.13	-15.97	21.90	-16.20	21.89	-16.21
-0.125	22.34	-2.44	22.35	-2.43	22.32	-2.46	22.31	-2.47
-0.250	23.65	2.71	23.66	2.72	23.66	2.72	23.65	2.71
-0.500	24.21	4.38	24.20	4.37	24.21	4.38	24.21	4.38
-1.000	20.97	4.30	20.97	4.30	20.97	4.30	20.98	4.31
-2.000	20.67	4.17	20.67	4.17	20.66	4.16	20.67	4.17

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.94	2.14	3.87	2.07	4.80	3.00	4.91	3.11
2	2.02	0.52	1.98	0.48	2.51	1.01	2.58	1.08

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.76	0.16	1.75	0.15	1.75	0.15	1.75	0.15
R(N)	-0.88	XXXX	-0.80	XXXX	-0.87	XXXX	-0.88	XXXX
Q(C,0)	-0.59	XXXX	-0.56	XXXX	-1.06	XXXX	-1.11	XXXX
Q(E,0)	0.95	XXXX	0.90	XXXX	1.47	XXXX	1.51	XXXX
Q(S,0)	-1.21	XXXX	-1.21	XXXX	-1.28	XXXX	-1.27	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	2.68	XXXX	2.44	XXXX	5.92	XXXX	6.44	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	34.20	XXXX	34.20	XXXX	35.20	XXXX	35.30	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	6294	5934	3149	3384
TAPE NO.	137.0	136.0	139.0	140.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-3.87	0.03	-3.88	0.03	-3.87	0.03	-3.87	0.03
1000	-6.91*	-7.13	-6.17*	-6.39	-3.43*	-3.65	-3.33*	-3.55
900	-6.87*	-7.09	-6.71*	-6.93	-4.12*	-4.34	-4.20*	-4.42
800	-6.78*	-6.98	-6.72*	-6.92	-4.48*	-4.68	-4.56*	-4.76
700	-6.67*	-6.87	-6.64*	-6.84	-4.69*	-4.89	-4.77*	-4.97
600	-6.55*	-7.18	-6.55*	-7.18	-4.81*	-5.44	-4.88*	-5.51
500	-6.42*	-7.83	-6.43*	-7.84	-4.88*	-6.29	-4.95*	-6.36
400	-6.27*	-8.07	-6.28*	-8.08	-4.91*	-6.71	-4.97*	-6.77
300	-6.08*	-8.06	-6.11*	-8.09	-4.89*	-6.87	-4.95*	-6.93
200	-5.84*	-7.16	-5.86*	-7.18	-4.81*	-6.13	-4.85*	-6.17
100	-5.44*	-6.10	-5.46*	-6.12	-4.59*	-5.25	-4.63*	-5.29
32	-4.76	-3.14	-4.79	-3.16	-4.11	-2.46	-4.13	-2.51
8	-3.89	-2.53	-3.92	-2.56	-3.39	-2.03	-3.42	-2.06

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	3.28	0.01	3.28	0.01	3.28	0.01	3.28	0.01
1000	7.98*	14.15	5.80*	11.97	6.15*	12.32	7.52*	13.69
900	7.15*	13.32	6.14*	12.31	5.96*	12.13	6.45*	12.62
800	6.69*	12.35	5.96*	11.62	5.42*	11.08	5.76*	11.42
700	6.35*	12.01	5.75*	11.41	4.96*	10.62	5.24*	10.90
600	6.07*	11.18	5.54*	10.65	4.59*	9.70	4.83*	9.94
500	5.80*	9.67	5.34*	9.21	4.27*	8.14	4.48*	8.35
400	5.54*	8.66	5.10*	8.22	3.96*	7.08	4.15*	7.27
300	5.26*	7.63	4.86*	7.23	3.65*	6.02	3.84*	6.21
200	4.91*	6.49	4.55*	6.13	3.32*	4.90	3.48*	5.06
100	4.44*	5.23	4.12*	4.91	2.90*	3.69	3.06*	3.85
32	3.77*	4.75	3.49*	4.47	2.38*	3.36	2.51*	3.49
8	3.04*	4.22	2.81*	3.99	1.89*	3.07	1.99*	3.17

CASE GPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	137.0	138.0	139.0	140.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.78	-0.42	20.76	-0.44	21.03	-0.17	21.03	-0.17
900	21.21	-0.99	21.19	-1.01	21.49	-0.71	21.48	-0.72
800	21.38	-2.12	21.37	-2.13	21.70	-1.80	21.67	-1.83
700	21.51	-2.89	21.49	-2.91	21.84	-2.56	21.81	-2.59
600	21.56	-3.84	21.56	-3.84	21.93	-3.47	21.90	-3.50
500	21.62	-4.78	21.63	-4.77	22.02	-4.38	21.97	-4.43
400	21.64	-5.86	21.64	-5.86	22.06	-5.44	22.01	-5.49
300	21.65	-6.95	21.66	-6.94	22.11	-6.49	22.05	-6.55
200	21.61	-7.59	21.62	-7.58	22.09	-7.11	22.03	-7.17
100	21.51	-8.59	21.53	-8.57	22.03	-8.07	21.99	-8.11
32	21.21	-9.59	21.23	-9.57	21.78	-9.02	21.71	-9.09
8	20.72	-10.18	20.73	-10.17	21.30	-9.60	21.24	-9.66
2	19.55	-11.35	19.55	-11.35	20.04	-10.86	20.00	-10.90
0	18.25	XXXX	18.24	XXXX	18.72	XXXX	18.68	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.16	4.68	11.15	4.67	12.45	5.97	12.51	6.03
900	11.73	5.07	11.71	5.05	13.03	6.37	13.07	6.41
800	12.09	5.03	12.08	5.02	13.42	6.36	13.43	6.37
700	12.43	5.11	12.41	5.09	13.79	6.47	13.79	6.47
600	12.70	5.12	12.69	5.11	14.09	6.50	14.07	6.49
500	13.00	5.09	12.99	5.08	14.41	6.50	14.40	6.49
400	13.26	5.12	13.26	5.12	14.71	6.57	14.71	6.57
300	13.57	4.97	13.56	4.96	15.05	6.45	15.04	6.44
200	13.90	5.17	13.90	5.17	15.41	6.68	15.38	6.65
100	14.31	5.40	14.33	5.42	15.86	6.95	15.83	6.92
32	14.79	7.86	14.80	7.87	16.37	9.44	16.33	9.40
8	15.24	8.65	15.29	8.70	16.91	10.32	16.85	10.26
2	16.07	16.07	16.15	16.15	17.99	17.99	17.89	17.89
0	16.99	XXXX	17.09	XXXX	19.12	XXXX	18.98	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NU.	137.0	138.0	139.0	140.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	23.25	-14.85	23.26	-14.84	23.50	-14.60	23.47	-14.63
-0.125	24.43	-0.35	24.44	-0.34	24.46	-0.32	24.45	-0.33
-0.250	24.75	3.81	24.75	3.81	24.74	3.80	24.75	3.81
-0.500	24.31	4.48	24.31	4.48	24.29	4.46	24.30	4.47
-1.000	21.05	4.38	21.05	4.38	21.04	4.37	21.04	4.37
-2.000	24.43	7.93	24.44	7.94	24.44	7.94	24.44	7.94

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.95	3.15	4.83	3.03	3.90	2.10	3.97	2.17
2	2.60	1.10	2.53	1.03	2.00	0.50	2.04	0.54

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.75	0.15	1.76	0.16	1.75	0.15	1.76	0.16
R(N)	-0.92	XXXX	-0.91	XXXX	-0.92	XXXX	-0.92	XXXX
Q(C,0)	-1.11	XXXX	-1.07	XXXX	-0.57	XXXX	-0.62	XXXX
Q(E,0)	1.63	XXXX	1.59	XXXX	1.03	XXXX	1.07	XXXX
Q(S,0)	-1.43	XXXX	-1.43	XXXX	-1.36	XXXX	-1.36	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	6.74	XXXX	6.22	XXXX	2.64	XXXX	2.88	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAL	DIFF	GPAC	DIFF	GPAC	DIFF
E	40.10	XXXX	40.10	XXXX	39.10	XXXX	39.20	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	7924	7724	9254	9504
TAPE NO.	141.0	142.0	143.0	144.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-5.04	-8.95	-5.04	-8.95	-5.04	-8.95	-5.04
1000	-7.81*	-8.03	-7.74*	-7.96	-11.69*	-11.91	-11.87*	-12.09
900	-8.41*	-8.63	-8.21*	-8.43	-11.30*	-11.52	-11.46*	-11.68
800	-8.60*	-8.80	-8.41*	-8.61	-11.01*	-11.21	-11.15*	-11.35
700	-8.65*	-8.85	-8.47*	-8.67	-10.73*	-10.93	-10.87*	-11.07
600	-8.62*	-9.25	-8.45*	-9.08	-10.46*	-11.09	-10.59*	-11.22
500	-8.54*	-9.95	-8.36*	-9.79	-10.18*	-11.59	-10.30*	-11.71
400	-8.41*	-10.21	-8.26*	-10.06	-9.88*	-11.68	-10.00*	-11.80
300	-8.22*	-10.20	-8.08*	-10.06	-9.53*	-11.51	-9.64*	-11.62
200	-7.92*	-9.24	-7.79*	-9.11	-9.08*	-10.40	-9.18*	-10.50
100	-7.39*	-8.05	-7.28*	-7.94	-8.38*	-9.04	-8.47*	-9.13
32	-6.47	-4.84	-6.38	-4.75	-7.27	-5.65	-7.35	-5.73
8	-5.27	-3.91	-5.20	-3.85	-5.92	-4.56	-5.98	-4.62

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.83	-1.45	1.83	-1.45	1.83	-1.45	1.84	-1.44
1000	3.05*	9.22	2.78*	8.95	3.63*	9.80	3.54*	9.71
900	1.86*	8.03	1.70*	7.87	2.76*	8.93	2.68*	8.85
800	1.15*	6.81	1.01*	6.67	2.31*	7.97	2.23*	7.89
700	0.66*	6.32	0.53*	6.19	2.01*	7.67	1.94*	7.60
600	0.31*	5.42	0.18*	5.29	1.77*	6.88	1.69*	6.80
500	0.03*	3.90	-0.08	3.79	1.56*	5.43	1.50*	5.37
400	-0.19	2.93	-0.30	2.81	1.37*	4.49	1.31*	4.43
300	-0.39	1.98	-0.50	1.86	1.19*	3.56	1.13*	3.50
200	-0.56	1.02	-0.67	0.91	1.00*	2.58	0.94*	2.52
100	-0.71	0.08	-0.82	-0.03	0.78*	1.57	0.73*	1.52
32	-0.78	0.20	-0.87	0.11	0.55*	1.53	0.51*	1.49
8	-0.69	0.48	-0.77	0.41	0.40*	1.58	0.36*	1.54

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	141.0		142.0		143.0		144.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	19.63	-1.57	19.71	-1.49	20.28	-0.92	20.95	-0.25
900	20.01	-2.19	20.07	-2.13	20.62	-1.58	21.31	-0.89
800	20.15	-3.35	20.22	-3.28	20.76	-2.74	21.45	-2.05
700	20.26	-4.14	20.33	-4.07	20.84	-3.56	21.53	-2.87
600	20.32	-5.08	20.39	-5.01	20.87	-4.53	21.57	-3.83
500	20.39	-6.01	20.46	-5.94	20.91	-5.49	21.61	-4.79
400	20.41	-7.09	20.49	-7.01	20.89	-6.61	21.59	-5.91
300	20.43	-8.17	20.51	-8.09	20.89	-7.71	21.58	-7.02
200	20.40	-8.80	20.48	-8.72	20.81	-8.39	21.52	-7.68
100	20.32	-9.78	20.40	-9.70	20.68	-9.42	21.40	-8.70
32	20.07	-10.73	20.15	-10.65	20.36	-10.44	21.08	-9.72
8	19.64	-11.26	19.72	-11.18	19.88	-11.02	20.62	-10.28
2	18.68	-12.22	18.75	-12.15	18.84	-12.06	19.61	-11.29
0	17.57	XXXX	17.62	XXXX	17.60	XXXX	18.41	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.62	5.14	11.67	5.19	10.78	4.30	11.29	4.81
900	12.13	5.47	12.19	5.53	11.29	4.63	11.82	5.16
800	12.47	5.41	12.54	5.48	11.60	4.54	12.16	5.10
700	12.79	5.47	12.85	5.53	11.91	4.59	12.49	5.17
600	13.07	5.49	13.13	5.55	12.16	4.58	12.74	5.16
500	13.35	5.44	13.42	5.51	12.43	4.52	13.02	5.11
400	13.61	5.47	13.67	5.53	12.67	4.53	13.27	5.13
300	13.91	5.31	13.99	5.39	12.94	4.34	13.55	4.95
200	14.19	5.46	14.26	5.53	13.22	4.49	13.84	5.11
100	14.54	5.63	14.63	5.72	13.59	4.68	14.22	5.31
32	14.91	7.98	15.01	8.08	13.97	7.04	14.62	7.69
8	15.26	8.67	15.35	8.76	14.33	7.74	14.99	8.40
2	15.84	15.64	15.94	15.94	14.94	14.94	15.62	15.62
0	16.52	XXXX	16.62	XXXX	15.67	XXXX	16.38	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	141.0	142.0	143.0	144.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.83	-16.27	21.86	-16.24	21.83	-16.27	23.21	-14.89
-0.125	22.28	-2.50	22.29	-2.49	22.29	-2.49	24.41	-0.37
-0.250	23.65	2.71	23.64	2.70	23.65	2.71	24.75	3.81
-0.500	24.21	4.38	24.21	4.38	24.20	4.37	24.31	4.48
-1.000	20.96	4.29	20.97	4.30	20.96	4.29	21.04	4.37
-2.000	20.66	4.16	20.66	4.16	20.66	4.16	24.44	7.94

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.33	3.53	5.27	3.47	5.94	4.14	6.00	4.20
2	2.86	1.36	2.82	1.32	3.22	1.72	3.27	1.77

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.75	0.15	1.75	0.15	1.76	0.16	1.75	0.15
R(N)	-0.93	XXXX	-0.92	XXXX	-0.90	XXXX	-0.94	XXXX
Q(C,0)	-1.18	XXXX	-1.17	XXXX	-1.53	XXXX	-1.52	XXXX
Q(E,0)	1.48	XXXX	1.46	XXXX	1.83	XXXX	1.95	XXXX
Q(S,0)	-1.21	XXXX	-1.21	XXXX	-1.21	XXXX	-1.37	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	9.14	XXXX	8.82	XXXX	11.92	XXXX	12.34	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	34.30	XXXX	34.30	XXXX	35.50	XXXX	40.20	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(GM SQ/SEC)	7949	8154	8154	20034
TAPE NO.	145.0	146.0	156.0	157.0
INTERVAL	12HR	12HR	12HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-5.04	-8.95	-5.04	-3.87	0.03	-4.77	0.02
1000	-7.84*	-8.06	-7.97*	-8.19	-3.14*	-3.36	-6.72	-5.88
900	-8.33*	-8.55	-8.55*	-8.77	-4.02*	-4.24	-7.06	-5.97
800	-8.52*	-8.72	-8.72*	-8.92	-4.41*	-4.61	-7.10	-5.85
700	-8.57*	-8.77	-8.76*	-8.96	-4.63*	-4.83	-7.06	-5.89
600	-8.55*	-9.18	-8.73*	-9.36	-4.75*	-5.38	-6.98	-5.99
500	-8.47*	-9.88	-8.64*	-10.05	-4.82*	-6.23	-6.85*	-7.84
400	-8.35*	-10.15	-8.51*	-10.31	-4.85*	-6.65	-6.70*	-8.63
300	-8.16*	-10.14	-8.30*	-10.28	-4.83*	-6.81	-6.50*	-7.71
200	-7.87*	-9.19	-8.00*	-9.32	-4.75*	-6.07	-6.22*	-7.68
100	-7.34*	-8.00	-7.46*	-8.12	-4.54*	-5.20	-5.76*	-7.34
32	-6.43	-4.80	-6.52	-4.90	-4.06	-2.43	-5.01*	-6.72
8	-5.25	-3.89	-5.32	-3.97	-3.36	-2.00	-4.07*	-5.68

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.83	-1.45	1.83	-1.45	3.28	0.0	1.74	0.01
1000	2.70*	8.87	2.96*	9.13	7.60*	13.77	1.94	0.65
900	1.60*	7.77	1.76*	7.93	6.55*	12.72	1.21	0.12
800	0.92*	6.58	1.06*	6.72	5.86*	11.52	0.81	-0.10
700	0.44*	6.10	0.57*	6.23	5.34*	11.00	0.54	-0.45
600	0.09*	5.20	0.22*	5.33	4.92*	10.03	0.36	-0.82
500	-0.17	3.70	-0.04	3.82	4.59*	8.46	0.22	-0.96
400	-0.39	2.72	-0.27	2.85	4.24*	7.36	0.10*	0.80
300	-0.57	1.80	-0.46	1.91	3.91*	6.28	0.01*	1.68
200	-0.74	0.84	-0.63	0.95	3.56*	5.14	-0.07	1.39
100	-0.88	-0.09	-0.77	0.02	3.12*	3.91	-0.14	1.18
32	-0.92	0.06	-0.82	0.16	2.57*	3.55	-0.17	1.36
8	-0.81	0.37	-0.73	0.45	2.04*	3.22	-0.16	1.34

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	145.0		146.0		156.0		157.0	
INTERVAL	12HR		12HR		12HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.37	-0.83	20.31	-0.89	20.37	-0.83	17.41	-0.09
900	20.76	-1.44	20.69	-1.51	20.81	-1.39	17.90	-0.50
800	20.92	-2.58	20.84	-2.66	20.99	-2.51	18.16	-1.04
700	21.02	-3.38	20.95	-3.45	21.13	-3.27	18.41	-1.59
600	21.08	-4.32	21.01	-4.39	21.21	-4.19	18.63	-2.37
500	21.16	-5.24	21.08	-5.32	21.29	-5.11	18.86	-3.24
400	21.19	-6.31	21.11	-6.39	21.32	-6.18	19.08	-4.12
300	21.21	-7.39	21.13	-7.47	21.37	-7.23	19.35	-5.05
200	21.18	-8.02	21.11	-8.09	21.34	-7.86	19.68	-5.92
100	21.12	-8.98	21.03	-9.07	21.29	-8.81	20.19	-6.51
32	20.86	-9.96	20.78	-10.02	21.01	-9.79	20.95	-5.65
8	20.45	-10.45	20.38	-10.52	20.51	-10.39	21.81	-5.39
2	19.51	-11.39	19.45	-11.45	19.21	-11.69	23.82	-4.08
0	18.41	XXXX	18.36	XXXX	17.85	XXXX	25.62	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.13	5.65	12.09	5.61	12.06	5.58	8.56	-3.81
900	12.69	6.03	12.62	5.96	12.59	5.93	9.05	-4.08
800	13.04	5.98	12.99	5.93	12.93	5.87	9.36	-4.58
700	13.36	6.04	13.31	5.99	13.26	5.94	9.66	-5.13
600	13.65	6.07	13.59	6.01	13.55	5.97	9.91	-5.57
500	13.96	6.05	13.90	5.99	13.86	5.95	10.19	-3.12
400	14.23	6.09	14.17	6.03	14.14	6.00	10.44	-1.04
300	14.53	5.93	14.47	5.87	14.47	5.87	10.74	1.06
200	14.84	6.11	14.77	6.04	14.80	6.07	11.07	2.82
100	15.22	6.31	15.15	6.24	15.22	6.31	11.50	4.44
32	15.61	8.68	15.53	8.60	15.70	8.77	12.04	6.41
8	15.99	9.40	15.91	9.32	16.19	9.60	12.65	7.27
2	16.61	16.61	16.51	16.51	17.17	17.17	13.92	13.92
0	17.33	XXXX	17.22	XXXX	18.21	XXXX	15.05	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	145.0	146.0	156.0	157.0
INTERVAL	12HR	12HR	12HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	23.24	-14.86	23.20	-14.90	22.11	-15.99	20.08	-28.22
-0.125	24.41	-0.37	24.41	-0.37	22.34	-2.44	20.80	0.47
-0.250	24.74	3.80	24.74	3.80	23.66	2.72	24.39	3.56
-0.500	24.31	4.48	24.30	4.47	24.19	4.36	24.46	3.79
-1.000	21.04	4.37	21.04	4.37	20.97	4.30	20.89	3.72
-2.000	24.43	7.93	24.43	7.93	20.66	4.16	20.60	3.60

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.32	3.52	5.38	3.58	3.94	2.14	4.08	1.88
2	2.86	1.36	2.90	1.40	2.02	0.52	1.93	0.13

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.75	0.15	1.76	0.16	1.76	0.16	23.55	1.25
R(N)	-0.96	XXXX	-0.95	XXXX	-0.87	XXXX	14.34	XXXX
Q(C,0)	-1.16	XXXX	-1.18	XXXX	-0.60	XXXX	5.59	XXXX
Q(E,0)	1.59	XXXX	1.60	XXXX	0.95	XXXX	7.16	XXXX
Q(S,0)	-1.37	XXXX	-1.38	XXXX	-1.21	XXXX	1.59	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	9.16	XXXX	9.50	XXXX	2.66	XXXX	17.74	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	39.20	XXXX	39.20	XXXX	34.30	XXXX	17.10	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	20104	19314	19584	19574
TAPE NO.	158.0	159.0	160.0	161.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.76	0.03	-4.76	0.03	-8.95	-4.16	-8.95	-4.16
1000	-6.25	-5.41	-11.11	-10.27	-8.83	-7.99	-8.63	-7.79
900	-6.85	-5.77	-10.59	-9.50	-9.10	-8.01	-8.96	-7.87
800	-6.95	-5.70	-10.23	-8.98	-9.09	-7.84	-8.99	-7.74
700	-6.95	-5.77	-9.92	-8.74	-9.01	-7.83	-8.91	-7.73
600	-6.87	-5.88	-9.63	-8.64	-8.88	-7.89	-8.79	-7.80
500	-6.76*	-7.75	-9.33*	-10.32	-8.70*	-9.69	-8.63*	-9.62
400	-6.62*	-8.55	-9.03*	-10.96	-8.51*	-10.44	-8.42*	-10.35
300	-6.42*	-7.63	-8.67*	-9.88	-8.23*	-9.44	-8.16*	-9.37
200	-6.15*	-7.61	-8.24*	-9.70	-7.87*	-9.33	-7.81*	-9.27
100	-5.70*	-7.28	-7.57*	-9.15	-7.29*	-8.87	-7.23*	-8.81
32	-4.96*	-6.67	-6.55*	-8.26	-6.33*	-8.04	-6.29*	-8.00
8	-4.03*	-5.64	-5.32*	-6.93	-5.15*	-6.76	-5.11*	-6.72

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.74	0.01	1.79	0.05	1.83	0.09	1.83	0.09
1000	2.25	0.96	0.70	-0.59	-0.95*	-2.24	0.04	-1.24
900	1.41	0.33	0.40	-0.68	-1.67*	-2.76	-1.19*	-2.28
800	0.98	0.07	0.25	-0.65	-2.04*	-2.95	-1.71*	-2.62
700	0.69	-0.30	0.16	-0.82	-2.27*	-3.26	-2.01*	-3.00
600	0.48	-0.70	0.10	-1.07	-2.42*	-3.60	-2.20*	-3.38
500	0.33	-0.85	0.05	-1.13	-2.50*	-3.68	-2.32*	-3.50
400	0.20*	0.90	0.00*	0.70	-2.56	-1.86	-2.39	-1.69
300	0.10*	1.77	-0.04	1.63	-2.57	-0.91	-2.43	-0.76
200	0.00*	1.46	-0.07	1.38	-2.56	-1.10	-2.42	-0.97
100	-0.06	1.25	-0.11	1.21	-2.46	-1.14	-2.34	-1.02
32	-0.11	1.43	-0.14	1.39	-2.20	-0.66	-2.11	-0.57
8	-0.11	1.39	-0.12	1.38	-1.82	-0.32	-1.74	-0.24

CASE CPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	158.0		159.0		160.0		161.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	17.47	-0.03	17.58	0.08	17.18	-0.32	17.25	-0.25
900	17.92	-0.48	18.07	-0.33	17.64	-0.76	17.71	-0.69
800	18.21	-0.99	18.36	-0.84	17.91	-1.29	17.96	-1.24
700	18.45	-1.55	18.61	-1.39	18.17	-1.83	18.21	-1.79
600	18.66	-2.34	18.81	-2.19	18.39	-2.61	18.43	-2.57
500	18.90	-3.20	19.04	-3.06	18.63	-3.47	18.67	-3.43
400	19.11	-4.09	19.26	-3.94	18.86	-4.34	18.90	-4.30
300	19.39	-5.01	19.52	-4.88	19.14	-5.26	19.19	-5.21
200	19.70	-5.90	19.84	-5.76	19.47	-6.13	19.51	-6.09
100	20.19	-6.51	20.33	-6.37	19.99	-6.71	20.02	-6.68
32	20.97	-5.63	21.11	-5.49	20.77	-5.83	20.80	-5.80
8	21.84	-5.36	21.99	-5.21	21.66	-5.54	21.69	-5.51
2	23.84	-4.06	24.04	-3.86	23.79	-4.11	23.81	-4.09
0	25.64	XXXX	25.77	XXXX	25.58	XXXX	25.61	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	8.63	-3.74	8.29	-4.08	8.41	-3.96	8.51	-3.86
900	9.11	-4.02	8.77	-4.36	8.91	-4.22	8.99	-4.14
800	9.41	-4.53	9.07	-4.87	9.21	-4.73	9.28	-4.66
700	9.71	-5.08	9.36	-5.43	9.52	-5.27	9.57	-5.22
600	9.96	-5.52	9.61	-5.87	9.77	-5.71	9.83	-5.65
500	10.24	-3.07	9.88	-3.43	10.05	-3.26	10.11	-3.20
400	10.49	-0.99	10.13	-1.35	10.31	-1.17	10.35	-1.13
300	10.79	1.11	10.42	0.74	10.60	0.92	10.66	0.98
200	11.11	2.86	10.75	2.50	10.92	2.67	10.98	2.73
100	11.55	4.49	11.21	4.15	11.39	4.33	11.42	4.36
32	12.08	6.45	11.78	6.15	11.91	6.28	11.97	6.34
8	12.69	7.31	12.41	7.03	12.52	7.14	12.59	7.21
2	13.95	13.95	13.79	13.79	13.85	13.85	13.92	13.92
0	15.08	XXXX	14.96	XXXX	14.97	XXXX	15.04	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	158.0	159.0	160.0	161.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.09	-28.21	20.13	-28.17	20.05	-28.25	20.06	-28.24
-0.125	20.80	0.47	20.81	0.48	20.79	0.46	20.79	0.46
-0.250	24.40	3.57	24.39	3.56	24.39	3.56	24.39	3.56
-0.500	24.45	3.78	24.46	3.79	24.46	3.79	24.45	3.78
-1.000	20.89	3.72	20.89	3.72	20.90	3.73	20.91	3.74
-2.000	20.67	3.67	20.66	3.66	20.67	3.67	20.67	3.67

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.04	1.84	5.33	3.13	5.47	3.27	5.40	3.20
2	1.91	0.11	2.44	0.64	2.50	0.70	2.47	0.67

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	23.55	1.25	23.55	1.25	23.57	1.27	23.57	1.27
R(N)	14.35	XXXX	14.35	XXXX	14.35	XXXX	14.36	XXXX
Q(C,0)	5.60	XXXX	5.39	XXXX	5.61	XXXX	5.61	XXXX
Q(E,0)	7.16	XXXX	7.32	XXXX	7.14	XXXX	7.14	XXXX
Q(S,0)	1.59	XXXX	1.62	XXXX	1.59	XXXX	1.59	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	17.64	XXXX	22.36	XXXX	23.24	XXXX	22.98	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	15.10	XXXX	15.30	XXXX	15.00	XXXX	15.00	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	20094	20344	19959	19969
TAPE NO.	162.0	163.0	164.0	165.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-4.16	-8.95	-4.16	-8.95	-4.16	-8.95	-4.16
1000	-13.39	-12.55	-13.29	-12.45	-8.60	-7.76	-8.81	-7.97
900	-12.76	-11.67	-12.61	-11.52	-8.84	-7.75	-8.98	-7.89
800	-12.31	-11.06	-12.14	-10.89	-8.82	-7.57	-8.95	-7.70
700	-11.93	-10.75	-11.76	-10.59	-8.73	-7.55	-8.83	-7.65
600	-11.58	-10.59	-11.41	-10.42	-8.60	-7.61	-8.70	-7.71
500	-11.22*	-12.21	-11.05*	-12.04	-8.43*	-9.42	-8.51*	-9.50
400	-10.86*	-12.79	-10.68*	-12.61	-8.23*	-10.16	-8.31*	-10.24
300	-10.43*	-11.64	-10.26*	-11.47	-7.97*	-9.18	-8.04*	-9.25
200	-9.90*	-11.36	-9.74*	-11.20	-7.62*	-9.08	-7.69*	-9.15
100	-9.10*	-10.68	-8.95*	-10.53	-7.05*	-8.63	-7.11*	-8.69
32	-7.87*	-9.58	-7.74*	-9.45	-6.13*	-7.84	-6.18*	-7.89
8	-6.39*	-8.00	-6.28*	-7.89	-4.98*	-6.59	-5.02*	-6.63

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.84	0.10	1.84	0.10	1.83	0.09	1.84	0.10
1000	-2.22*	-3.51	-2.42*	-3.71	-0.12*	-1.41	-1.13*	-2.42
900	-2.46*	-3.55	-2.66*	-3.75	-1.37*	-2.46	-1.84*	-2.93
800	-2.57*	-3.48	-2.75*	-3.66	-1.87*	-2.78	-2.21*	-3.12
700	-2.60*	-3.59	-2.78*	-3.77	-2.16*	-3.15	-2.42*	-3.41
600	-2.63*	-3.81	-2.80*	-3.98	-2.34*	-3.52	-2.56*	-3.74
500	-2.63*	-3.81	-2.80*	-3.98	-2.45*	-3.63	-2.64*	-3.82
400	-2.61	-1.91	-2.77	-2.07	-2.52	-1.82	-2.69	-1.99
300	-2.58	-0.91	-2.73	-1.07	-2.55	-0.88	-2.70	-1.04
200	-2.52	-1.06	-2.66	-1.21	-2.54	-1.08	-2.68	-1.22
100	-2.38	-1.06	-2.51	-1.19	-2.44	-1.12	-2.56	-1.24
32	-2.12	-0.58	-2.23	-0.69	-2.19	-0.65	-2.29	-0.75
8	-1.74	-0.24	-1.83	-0.33	-1.80	-0.30	-1.89	-0.39

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	162.0		163.0		164.0		165.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	17.63	0.13	18.04	0.54	17.68	0.18	17.62	0.12
900	18.10	-0.30	18.59	0.19	18.21	-0.19	18.16	-0.24
800	18.38	-0.82	18.92	-0.28	18.53	-0.67	18.50	-0.70
700	18.64	-1.36	19.19	-0.81	18.81	-1.19	18.79	-1.21
600	18.84	-2.16	19.43	-1.57	19.05	-1.95	19.02	-1.98
500	19.07	-3.03	19.67	-2.43	19.30	-2.80	19.28	-2.82
400	19.27	-3.93	19.89	-3.31	19.55	-3.65	19.52	-3.68
300	19.53	-4.87	20.19	-4.21	19.84	-4.56	19.82	-4.58
200	19.85	-5.75	20.51	-5.09	20.21	-5.39	20.18	-5.42
100	20.33	-6.37	21.02	-5.68	20.74	-5.96	20.71	-5.99
32	21.07	-5.53	21.83	-4.77	21.56	-5.04	21.54	-5.06
8	21.92	-5.28	22.71	-4.49	22.49	-4.71	22.46	-4.74
2	24.02	-3.88	24.90	-3.00	24.69	-3.21	24.67	-3.23
0	25.64	XXXX	26.62	XXXX	26.57	XXXX	26.56	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	8.33	-4.04	8.67	-3.70	8.83	-3.54	8.74	-3.63
900	8.79	-4.34	9.16	-3.97	9.34	-3.79	9.27	-3.86
800	9.08	-4.86	9.48	-4.46	9.66	-4.28	9.60	-4.34
700	9.38	-5.41	9.79	-5.00	9.97	-4.82	9.92	-4.87
600	9.61	-5.87	10.04	-5.44	10.24	-5.24	10.18	-5.30
500	9.88	-3.43	10.32	-2.99	10.53	-2.78	10.47	-2.84
400	10.12	-1.36	10.58	-0.90	10.80	-0.68	10.74	-0.74
300	10.42	0.74	10.89	1.21	11.12	1.44	11.06	1.38
200	10.73	2.48	11.22	2.97	11.45	3.20	11.39	3.14
100	11.19	4.13	11.69	4.63	11.91	4.85	11.86	4.80
32	11.71	6.08	12.27	6.64	12.50	6.87	12.44	6.81
8	12.32	6.94	12.91	7.53	13.13	7.75	13.08	7.70
2	13.71	13.71	14.36	14.36	14.53	14.53	14.48	14.48
0	14.77	XXXX	15.50	XXXX	15.73	XXXX	15.68	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	162.0		163.0		164.0		165.0	
INTERVAL	6HR		6HR		6HR		6HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.07	-28.23	24.41	-23.89	24.38	-23.92	24.38	-23.92
-0.125	20.79	0.46	23.79	3.46	23.79	3.46	23.79	3.46
-0.250	24.39	3.56	25.06	4.23	25.06	4.23	25.07	4.24
-0.500	24.47	3.80	24.48	3.81	24.48	3.81	24.48	3.81
-1.000	20.91	3.74	20.94	3.77	20.93	3.76	20.93	3.76
-2.000	20.67	3.67	24.44	7.44	24.45	7.45	24.45	7.45

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	6.64	4.44	6.55	4.35	5.31	3.11	5.38	3.18
2	2.88	1.08	2.88	1.08	2.45	0.65	2.47	0.67

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	23.55	1.25	23.56	1.26	23.56	1.26	23.56	1.26
R(N)	14.36	XXXX	14.31	XXXX	14.30	XXXX	14.30	XXXX
Q(C,0)	5.48	XXXX	5.83	XXXX	5.97	XXXX	5.97	XXXX
Q(E,0)	7.28	XXXX	7.83	XXXX	7.69	XXXX	7.69	XXXX
Q(S,0)	1.60	XXXX	0.64	XXXX	0.63	XXXX	0.63	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	28.96	XXXX	28.96	XXXX	23.00	XXXX	23.30	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	.30	XXXX	18.80	XXXX	18.60	XXXX	18.70	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	5469	5469	5469	5464
TAPE NO.	166.0	167.0	168.0	169.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.77	0.02	-4.76	0.03	-4.76	0.03	-4.77	0.02
1000	-5.76	-4.92	-9.07	-8.23	-11.55	-10.71	-11.55	-10.71
900	-7.04	-5.95	-10.93	-9.84	-11.57	-10.48	-11.57	-10.48
800	-7.70	-6.45	-11.23	-9.98	-11.52	-10.27	-11.52	-10.27
700	-8.10	-6.92	-11.25	-10.07	-11.41	-10.23	-11.41	-10.23
600	-8.33	-7.34	-11.16	-10.17	-11.27	-10.28	-11.27	-10.28
500	-8.45*	-9.44	-11.01*	-12.00	-11.08*	-12.07	-11.08*	-12.07
400	-8.51*	-10.44	-10.80*	-12.73	-10.85*	-12.78	-10.85*	-12.78
300	-8.45*	-9.66	-10.51*	-11.72	-10.55*	-11.76	-10.55*	-11.76
200	-8.27*	-9.73	-10.10*	-11.56	-10.13*	-11.59	-10.13*	-11.59
100	-7.83*	-9.41	-9.40*	-10.98	-9.42*	-11.00	-9.42*	-11.00
32	-6.92*	-8.63	-8.21*	-9.92	-8.22*	-9.93	-8.23*	-9.94
8	-5.68*	-7.29	-6.71*	-8.32	-6.72*	-8.33	-6.73*	-8.34

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.74	0.0	1.74	0.01	1.74	0.01	1.74	0.01
1000	2.57	1.28	1.60	0.31	1.24	-0.05	1.24	-0.05
900	1.95	0.86	1.17	0.09	1.03	-0.06	1.03	-0.06
800	1.42	0.51	0.93	0.02	0.85	-0.06	0.84	-0.07
700	1.01	0.02	0.76	-0.23	0.70	-0.29	0.71	-0.28
600	0.72	-0.46	0.61	-0.56	0.58	-0.59	0.58	-0.59
500	0.50	-0.68	0.49	-0.68	0.47	-0.71	0.47	-0.71
400	0.30*	1.00	0.38*	1.08	0.36*	1.06	0.36*	1.06
300	0.13*	1.80	0.26*	1.93	0.25*	1.92	0.25*	1.92
200	-0.02	1.43	0.14*	1.60	0.13*	1.59	0.13*	1.59
100	-0.20	1.11	0.01*	1.33	0.01*	1.33	0.01*	1.33
32	-0.31	1.22	-0.08	1.45	-0.09	1.44	-0.09	1.44
8	-0.32	1.18	-0.13	1.36	-0.13	1.36	-0.13	1.37

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	166.0		167.0		168.0		169.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.72	-0.78	16.79	-0.71	16.79	-0.71	16.68	-0.82
900	17.02	-1.38	17.21	-1.19	17.21	-1.19	16.94	-1.46
800	17.26	-1.94	17.49	-1.71	17.48	-1.72	17.11	-2.09
700	17.51	-2.49	17.77	-2.23	17.76	-2.24	17.31	-2.69
600	17.78	-3.22	18.04	-2.96	18.04	-2.96	17.51	-3.49
500	18.12	-3.98	18.37	-3.73	18.37	-3.73	17.77	-4.33
400	18.48	-4.72	18.72	-4.48	18.73	-4.47	18.07	-5.13
300	18.95	-5.45	19.19	-5.21	19.19	-5.21	18.49	-5.91
200	19.59	-6.01	19.81	-5.79	19.80	-5.80	19.03	-6.57
100	20.59	-6.11	20.79	-5.91	20.79	-5.91	19.93	-6.77
32	22.27	-4.33	22.43	-4.17	22.42	-4.18	21.47	-5.13
8	24.19	-3.01	24.32	-2.88	24.32	-2.88	23.29	-3.91
2	28.61	0.71	28.69	0.79	28.69	0.79	27.51	-0.39
0	32.86	XXXX	32.85	XXXX	32.84	XXXX	31.50	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	7.79	-4.58	7.54	-4.83	7.53	-4.84	7.45	-4.92
900	8.47	-4.66	8.20	-4.93	8.20	-4.93	8.02	-5.11
800	8.99	-4.95	8.68	-5.26	8.69	-5.25	8.42	-5.52
700	9.51	-5.28	9.17	-5.62	9.16	-5.63	8.84	-5.95
600	9.99	-5.49	9.63	-5.85	9.63	-5.85	9.23	-6.25
500	10.54	-2.77	10.15	-3.16	10.14	-3.17	9.69	-3.62
400	11.10	-0.38	10.65	-0.79	10.69	-0.79	10.16	-1.32
300	11.81	2.13	11.39	1.71	11.39	1.71	10.79	1.11
200	12.67	4.42	12.24	3.99	12.24	3.99	11.53	3.28
100	14.01	6.95	13.59	6.53	13.59	6.53	12.77	5.71
32	16.01	10.38	15.63	10.00	15.63	10.00	14.62	8.99
8	18.43	13.05	18.11	12.73	18.09	12.71	16.90	11.52
2	23.80	23.80	23.55	23.55	23.54	23.54	21.92	21.92
0	28.96	XXXX	28.72	XXXX	28.72	XXXX	26.67	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	166.0		167.0		168.0		169.0	
INTERVAL	6HR		6HR		6HR		6HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	27.29	-21.01	27.29	-21.01	27.29	-21.01	22.69	-25.61
-0.125	24.23	3.90	24.23	3.90	24.22	3.89	21.23	0.90
-0.250	25.10	4.27	25.09	4.26	25.09	4.26	24.45	3.62
-0.500	24.49	3.82	24.48	3.81	24.48	3.81	24.46	3.79
-1.000	2 [illegible]4	3.77	20.93	3.76	20.93	3.76	20.90	3.73
-2.000	24.45	7.45	24.44	7.44	24.45	7.45	20.66	3.66

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.70	3.50	6.72	4.52	6.73	4.53	6.73	4.53
2	2.79	0.99	3.27	1.47	3.28	1.48	3.28	1.48

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	23.56	1.26	23.57	1.27	23.57	1.27	23.57	1.27
R(N)	13.58	XXXX	13.59	XXXX	13.60	XXXX	13.72	XXXX
Q(C,0)	3.46	XXXX	3.40	XXXX	3.40	XXXX	3.27	XXXX
Q(E,0)	8.52	XXXX	8.59	XXXX	8.60	XXXX	7.92	XXXX
Q(S,0)	1.60	XXXX	1.60	XXXX	1.60	XXXX	2.53	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	6.76	XXXX	7.98	XXXX	7.98	XXXX	7.96	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	19.60	XXXX	19.70	XXXX	19.90	XXXX	15.90	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	5464	5469	5464	5469
TAPE NO.	170.0	171.0	172.0	173.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.76	0.03	-4.77	0.02	-8.95	-4.16	-8.95	-4.16
1000	-5.24	-4.40	-5.76	-4.92	-13.97	-13.13	-11.77	-10.93
900	-6.86	-5.77	-7.04	-5.95	-13.97	-12.88	-13.36	-12.27
800	-7.60	-6.35	-7.71	-6.46	-13.90	-12.65	-13.61	-12.36
700	-8.03	-6.85	-8.09	-6.91	-13.77	-12.59	-13.60	-12.42
600	-8.28	-7.29	-8.33	-7.34	-13.59	-12.60	-13.49	-12.50
500	-8.42*	-9.41	-8.46*	-9.45	-13.38*	-14.37	-13.30*	-14.29
400	-8.48*	-10.41	-8.51*	-10.44	-13.11*	-15.04	-13.06*	-14.99
300	-8.43*	-9.64	-8.45*	-9.66	-12.75*	-13.96	-12.71*	-13.92
200	-8.25*	-9.71	-8.27*	-9.73	-12.24*	-13.70	-12.21*	-13.67
100	-7.82*	-9.40	-7.83*	-9.41	-11.39*	-12.97	-11.37*	-12.95
32	-6.91*	-8.62	-6.92*	-8.63	-9.95*	-11.66	-9.93*	-11.64
8	-5.68*	-7.29	-5.69*	-7.30	-8.13*	-9.74	-8.11*	-9.72

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.74	0.01	1.74	0.01	1.83	0.09	1.83	0.09
1000	3.10	1.81	2.57	1.28	-1.67*	-2.96	-0.29*	-1.58
900	2.21	1.12	1.94	0.86	-1.88*	-2.97	-1.51*	-2.60
800	1.58	0.67	1.42	0.51	-2.05*	-2.96	-1.88*	-2.79
700	1.12	0.14	1.02	0.03	-2.19*	-3.18	-2.09*	-3.08
600	0.80	-0.38	0.72	-0.46	-2.30*	-3.48	-2.23*	-3.41
500	0.55	-0.62	0.49	-0.68	-2.39*	-3.57	-2.35*	-3.53
400	0.34*	1.04	0.30*	1.00	-2.48	-1.78	-2.45	-1.75
300	0.16*	1.83	0.14*	1.81	-2.54	-0.88	-2.52	-0.85
200	-0.01	1.45	-0.03	1.42	-2.60	-1.15	-2.58	-1.12
100	-0.18	1.13	-0.20	1.11	-2.59	-1.27	-2.58	-1.26
32	-0.30	1.24	-0.31	1.22	-2.43	-0.89	-2.42	-0.88
8	-0.31	1.19	-0.32	1.17	-2.07	-0.57	-2.06	-0.56

CASE : PG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	170.0		171.0		172.0		173.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.71	-0.79	16.61	-0.89	16.66	-0.82	16.68	-0.82
900	16.83	-1.57	16.75	-1.65	16.94	-1.46	16.94	-1.46
800	16.92	-2.28	16.90	-2.30	17.11	-2.09	17.11	-2.09
700	17.08	-2.92	17.05	-2.95	17.31	-2.69	17.30	-2.70
600	17.27	-3.73	17.25	-3.75	17.51	-3.49	17.50	-3.50
500	17.54	-4.56	17.51	-4.59	17.77	-4.33	17.70	-4.40
400	17.84	-5.36	17.82	-5.38	18.06	-5.14	18.07	-5.13
300	18.25	-6.15	18.25	-6.15	18.47	-5.93	18.46	-5.94
200	18.82	-6.76	18.81	-6.79	19.02	-6.58	19.03	-6.57
100	19.76	-6.94	19.75	-6.95	19.93	-6.77	19.93	-6.77
32	21.34	-5.26	21.33	-5.27	21.48	-5.12	21.47	-5.13
8	23.18	-4.02	23.17	-4.03	23.29	-3.91	23.29	-3.91
2	27.43	-0.47	27.42	-0.48	27.54	-0.36	27.54	-0.36
0	31.52	XXXX	31.51	XXXX	31.48	XXXX	31.48	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	7.85	-4.52	7.72	-4.65	7.46	-4.91	7.46	-4.91
900	8.38	-4.75	8.31	-4.82	8.02	-5.11	8.02	-5.11
800	8.79	-5.15	8.74	-5.20	8.42	-5.52	8.43	-5.51
700	9.22	-5.57	9.17	-5.62	8.83	-5.96	8.84	-5.95
600	9.64	-5.84	9.61	-5.87	9.23	-6.25	9.23	-6.25
500	10.12	-3.19	10.09	-3.22	9.69	-3.62	9.69	-3.62
400	10.61	-0.87	10.58	-0.90	10.16	-1.32	10.16	-1.32
300	11.23	1.55	11.21	1.53	10.79	1.11	10.79	1.11
200	11.99	3.74	11.97	3.72	11.53	3.28	11.54	3.29
100	13.19	6.13	13.19	6.13	12.76	5.70	12.76	5.70
32	15.01	9.38	14.99	9.36	14.62	8.99	14.62	8.99
8	17.24	11.86	17.23	11.85	16.87	11.49	16.90	11.52
2	22.19	22.19	22.18	22.18	21.95	21.95	21.98	21.98
0	26.94	XXXX	26.93	XXXX	26.66	XXXX	26.68	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	170.0		171.0		172.0		173.0	
INTERVAL	6HR		6HR		6HR		6HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	22.71	-25.59	22.71	-25.59	22.70	-25.60	22.70	-25.60
-0.125	21.23	0.90	21.23	0.90	21.24	0.91	21.23	0.90
-0.250	24.45	3.62	24.44	3.61	24.44	3.61	24.44	3.61
-0.500	24.46	3.79	24.47	3.80	24.46	3.79	24.47	3.80
-1.000	20.89	3.72	20.90	3.73	20.90	3.73	20.90	3.73
-2.000	20.67	3.67	20.67	3.67	20.67	3.67	20.67	3.67

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.69	3.49	5.70	3.50	8.39	6.19	8.38	6.18
2	2.79	0.99	2.79	0.99	4.04	2.24	4.03	2.23

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	23.57	1.27	23.57	1.27	23.56	1.26	23.56	1.26
R(N)	13.70	XXXX	13.70	XXXX	13.72	XXXX	13.72	XXXX
G(C,0)	3.33	XXXX	3.33	XXXX	3.27	XXXX	3.27	XXXX
G(E,0)	7.64	XXXX	7.64	XXXX	7.92	XXXX	7.92	XXXX
G(S,0)	2.53	XXXX	2.53	XXXX	2.53	XXXX	2.52	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	6.74	XXXX	6.74	XXXX	9.96	XXXX	9.94	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	15.90	XXXX	15.90	XXXX	15.90	XXXX	15.90	XXXX

CASE EPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

R(CM SC/SEC)	5464	10004	10004	10909
TAPE NO.	174.0	176.0	177.0	178.0
INTERVAL	6HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-4.16	-7.49	0.03	-7.49	0.03	-7.49	0.03
1000	-7.92	-7.08	-5.22	-3.73	-5.79	-4.30	-6.96	-5.47
900	-9.24	-8.15	-5.47	-3.97	-5.56	-4.06	-6.95	-5.45
800	-9.91	-8.66	-5.68	-3.76	-5.70	-3.76	-6.95	-5.00
700	-10.32	-9.14	-5.83	-3.65	-5.84	-3.67	-6.96	-5.03
600	-10.56	-9.57	-5.91	-3.80	-5.91	-3.81	-6.83	-4.72
500	-10.67*	-11.66	-5.90	-3.92	-5.90	-3.93	-6.68	-4.70
400	-10.69*	-12.62	-5.79	-4.21	-5.79	-4.21	-6.45	-4.87
300	-10.60*	-11.81	-5.55	-3.52	-5.55	-3.52	-6.09	-4.06
200	-10.35*	-11.81	-5.15	-2.74	-5.16	-2.74	-5.59	-3.16
100	-9.78*	-11.36	-4.52	-1.94	-4.52	-1.94	-4.86	-2.28
32	-8.63*	-10.34	-3.72*	-6.42	-3.72*	-6.42	-3.97*	-6.67
8	-7.06*	-8.69	-2.97*	-5.87	-2.97*	-5.87	-3.17*	-6.07

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.64	0.10	1.33*	2.66	1.33*	2.66	1.32*	2.65
1000	-0.33*	-1.62	-0.99	-0.59	-0.07	0.32	-2.94	-2.54
900	-1.0	-2.09	-1.31	-0.96	-1.17	-0.82	-2.89	-2.54
800	-1.5.	-2.46	-1.64	-0.97	-1.80	-0.93	-2.90	-2.23
700	-1.96*	-2.95	-1.96	-1.12	-1.95	-1.11	-2.96	-2.12
600	-2.27*	-3.45	-2.31	-0.83	-2.30	-0.82	-3.12	-1.64
500	-2.48*	-3.66	-2.69	-0.32	-2.69	-0.32	-3.36	-0.[illegible]
400	-2.66	-1.96	-3.12	0.11	-3.12	0.12	-3.67	-0.45
300	-2.76	-1.12	-3.56	-1.23	-3.56	-1.23	-3.99	-1.66
200	-2.89	-1.44	-3.98	-3.10	-3.98	-3.10	-4.30	-3.42
100	-2.91	-1.59	-4.24	-4.24	-4.24	-4.24	-4.47	-4.47
32	-2.74	-1.20	-4.07	-2.75	-4.06	-2.74	-4.21	-2.89
8	-2.32	-0.82	-3.41	-2.07	-3.42	-2.07	-3.52	-2.19

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	174.0	176.0	177.0	178.0
INTERVAL	6HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.37	-1.13	16.10	-0.20	16.11	-0.19	16.14	-0.16
900	16.49	-1.91	16.86	-0.04	16.86	-0.04	16.91	0.01
800	16.60	-2.60	17.31	0.11	17.31	0.11	17.36	0.18
700	16.76	-3.24	17.57	-0.23	17.57	-0.23	17.65	-0.15
600	16.97	-4.03	17.60	-0.54	17.60	-0.54	17.75	-0.45
500	17.24	-4.86	17.69	-1.11	17.69	-1.11	17.76	-1.04
400	17.56	-5.04	17.60	-1.40	17.60	-1.40	17.68	-1.32
300	17.99	-6.41	17.49	-1.41	17.49	-1.41	17.57	-1.33
200	18.59	-7.01	17.32	-1.28	17.32	-1.28	17.39	-1.21
100	19.55	-7.15	17.10	-1.40	17.15	-1.35	17.23	-1.27
32	21.16	-5.44	16.98	-1.82	16.98	-1.82	17.05	-1.75
8	23.02	-4.18	17.04	-2.46	17.04	-2.46	17.10	-2.40
2	27.35	-0.55	17.52	-2.38	17.54	-2.36	17.87	-2.03
0	31.43	XXXX	17.46	XXXX	17.46	XXXX	17.47	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	7.54	-4.83	6.72	-0.09	6.76	-0.05	6.72	-0.09
900	8.13	-5.00	7.15	0.09	7.17	0.11	7.15	0.09
800	8.57	-5.37	7.48	0.16	7.50	0.18	7.49	0.17
700	9.02	-5.77	7.79	0.21	7.80	0.22	7.79	0.21
600	9.44	-6.04	8.03	0.18	8.03	0.18	8.03	0.18
500	9.94	-6.37	8.27	0.13	8.28	0.14	8.27	0.13
400	10.43	-7.05	8.45	0.02	8.45	0.02	8.43	0.0
300	11.06	1.38	8.67	0.07	8.67	0.07	8.66	0.06
200	11.84	3.59	8.90	0.23	8.90	0.23	8.87	0.20
100	13.04	5.98	9.19	0.46	9.20	0.47	9.18	0.45
32	14.66	9.23	9.61	4.02	9.61	4.02	9.58	3.99
8	17.06	11.70	10.10	4.51	10.09	4.50	10.07	4.48
2	22.06	22.06	12.42	12.42	12.51	12.51	14.23	14.23
0	26.74	XXXX	12.12	XXXX	12.13	XXXX	12.06	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	174.0	176.0	177.0	178.0
INTERVAL	6HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	22.66	-25.64	7.61	-14.89	7.61	-14.89	7.62	-14.88
-0.125	21.22	0.89	21.38	-0.84	21.38	-0.84	21.37	-0.85
-0.250	24.44	3.01	25.38	1.49	25.39	1.50	25.38	1.49
-0.500	24.47	3.80	24.59	1.42	24.59	1.42	24.60	1.43
-1.000	20.89	3.72	20.85	1.40	20.85	1.46	20.85	1.46
-2.000	20.67	3.67	20.67	1.45	20.68	1.46	20.67	1.45

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	7.47	5.27	4.55	1.35	4.[illegible]	1.35	4.76	1.56
2	3.62	1.82	-0.69	-3.19	-0.[illegible]	-3.35	-5.19	-7.69

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	23.55	1.25	11.89	-0.01	11.90	-0.00	11.90	-0.00
R(N)	13.69	XXXX	6.33	XXXX	6.35	XXXX	6.34	XXXX
Q(C,0)	3.36	XXXX	0.33	XXXX	0.32	XXXX	0.30	XXXX
Q(E,0)	7.82	XXXX	3.18	XXXX	3.18	XXXX	3.21	XXXX
Q(S,0)	2.52	XXXX	2.82	XXXX	2.82	XXXX	2.83	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	8.84	XXXX	10.44	XXXX	10.44	XXXX	11.26	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	15.70	XXXX	1.20	XXXX	1.20	XXXX	1.20	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	11129	11119	11454	13804
TAPE NO.	179.0	180.0	181.0	182.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-1.42	-8.95	-1.42	-8.95	-1.42	-8.95	-1.42
1000	-5.49	-4.01	-6.20	-4.72	-7.24	-5.76	-7.23	-5.74
900	-5.74	-4.24	-5.85	-4.35	-7.22	-5.72	-7.16	-5.66
800	-5.95	-4.01	-5.98	-4.03	-7.21	-5.26	-7.05	-5.10
700	-6.09	-4.21	-6.10	-4.23	-7.17	-5.29	-6.90	-5.02
600	-6.16	-4.06	-6.17	-4.06	-7.08	-4.97	-6.72	-4.61
500	-6.14	-4.16	-6.14	-4.16	-6.93	-4.95	-6.52	-4.54
400	-6.02	-4.44	-6.03	-4.45	-6.69	-5.11	-6.30	-4.72
300	-5.78	-3.76	-5.78	-3.76	-6.33	-4.30	-6.04	-4.01
200	-5.40	-2.99	-5.40	-2.98	-5.84	-3.43	-5.72	-3.31
100	-4.78	-2.20	-4.79	-2.21	-5.13	-2.55	-5.24	-2.66
32	-3.99*	-6.69	-3.99*	-6.69	-4.25*	-6.95	-4.53*	-7.23
8	-3.20*	-6.10	-3.20*	-6.10	-3.40*	-6.30	-3.68*	-6.58

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.83*	3.16	1.83*	3.16	1.83*	3.16	1.83*	3.16
1000	-1.43	-1.03	-0.38	0.02	-3.38	-2.98	-3.38	-2.98
900	-1.76	-1.41	-1.58	-1.23	-3.33	-2.98	-3.43	-3.08
800	-2.09	-1.42	-2.04	-1.37	-3.34	-2.67	-3.57	-2.90
700	-2.42	-1.58	-2.40	-1.56	-3.41	-2.57	-3.72	-2.88
600	-2.77	-1.30	-2.76	-1.28	-3.58	-2.10	-3.87	-2.39
500	-3.15	-0.78	-3.15	-0.78	-3.82	-1.45	-3.99	-1.62
400	-3.56	-0.32	-3.56	-0.32	-4.11	-0.87	-4.09	-0.85
300	-3.97	-1.64	-3.97	-1.64	-4.41	-2.08	-4.14	-1.81
200	-4.36	-3.48	-4.35	-3.47	-4.69	-3.81	-4.14	-3.26
100	-4.58	-4.58	-4.57	-4.57	-4.80	-4.80	-4.00	-4.00
32	-4.35	-3.03	-4.35	-3.03	-4.51	-3.19	-3.61	-2.29
8	-3.64	-2.30	-3.64	-2.30	-3.75	-2.40	-2.97	-1.62

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	179.0	180.0	181.0	182.0
INTERVAL	2HR	2HR	2HR	2HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.11	-0.19	16.12	-0.18	16.16	-0.14	16.49	0.19
900	16.86	-0.04	16.86	-0.04	16.92	0.02	17.14	0.24
800	17.30	0.10	17.30	0.10	17.38	0.18	17.36	0.16
700	17.54	-0.26	17.54	-0.26	17.64	-0.16	17.47	-0.33
600	17.62	-0.58	17.63	-0.57	17.72	-0.48	17.51	-0.69
500	17.65	-1.15	17.65	-1.15	17.75	-1.05	17.55	-1.25
400	17.56	-1.44	17.56	-1.44	17.66	-1.34	17.57	-1.43
300	17.46	-1.44	17.46	-1.44	17.56	-1.34	17.62	-1.28
200	17.31	-1.29	17.32	-1.28	17.40	-1.20	17.67	-0.93
100	17.15	-1.35	17.16	-1.34	17.24	-1.26	17.81	-0.69
32	16.01	-2.79	17.01	-1.79	17.07	-1.73	18.03	-0.77
8	17.05	-2.45	17.06	-2.44	17.12	-2.38	18.42	-1.08
2	18.28	-1.62	18.81	-1.09	16.61	-3.29	19.38	-0.52
0	17.42	XXXX	17.42	XXXX	17.44	XXXX	20.08	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.72	-0.09	6.76	-0.05	6.72	-0.09	6.91	0.10
900	7.15	0.09	7.19	0.13	7.16	0.10	7.39	0.33
800	7.48	0.16	7.51	0.19	7.49	0.17	7.68	0.36
700	7.79	0.21	7.80	0.22	7.80	0.22	7.95	0.37
600	8.03	0.18	8.03	0.18	8.03	0.18	8.17	0.32
500	8.26	0.12	8.26	0.12	8.26	0.12	8.42	0.28
400	8.45	0.02	8.44	0.01	8.44	0.01	8.62	0.19
300	8.66	0.06	8.67	0.07	8.65	0.05	8.90	0.30
200	8.90	0.23	8.90	0.23	8.86	0.19	9.16	0.49
100	9.19	0.46	9.19	0.46	9.18	0.45	9.54	0.81
32	9.58	3.99	9.59	4.00	9.62	4.03	10.02	4.43
8	10.06	4.47	10.08	4.49	10.05	4.46	10.55	4.96
2	16.56	16.56	19.51	19.51	7.04	7.04	11.76	11.76
0	12.01	XXXX	12.02	XXXX	11.95	XXXX	12.66	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	179.0	180.0	181.0	182.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	7.62	-14.88	7.62	-14.88	7.62	-14.88	19.71	-2.79
-0.125	21.38	-0.84	21.38	-0.84	21.38	-0.84	23.75	1.53
-0.250	25.39	1.50	25.38	1.49	25.38	1.49	25.53	1.64
-0.500	24.60	1.43	24.60	1.43	24.61	1.44	24.60	1.43
-1.000	20.85	1.46	20.85	1.46	20.85	1.46	20.86	1.47
-2.000	20.67	1.45	20.67	1.45	20.68	1.46	24.45	5.23

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.87	1.67	4.67	1.67	5.08	1.88	4.74	1.54
2	-11.37	-13.87	-18.80	-21.30	13.14	10.64	2.01	-0.49

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	11.88	-0.02	11.86	-0.04	11.87	-0.03	11.38	-0.02
R(N)	6.33	XXXX	6.31	XXXX	6.32	XXXX	6.11	XXXX
G(C,0)	0.30	XXXX	0.29	XXXX	0.27	XXXX	1.68	XXXX
G(E,0)	3.21	XXXX	3.20	XXXX	3.24	XXXX	4.32	XXXX
G(S,0)	2.82	XXXX	2.81	XXXX	2.82	XXXX	3.11	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	11.76	XXXX	11.76	XXXX	12.64	XXXX	14.22	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.20	XXXX	1.20	XXXX	1.20	XXXX	3.20	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

R(CM SQ/SEC)	13559	13569	13324	5459
TAPE NO.	183.0	184.0	185.0	186.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	-1.42	-8.95	-1.42	-7.50	0.03	-7.50	0.03
1000	-6.17	-4.68	-5.54	-4.05	-5.78	-4.29	-5.24	-3.76
900	-5.91	-4.41	-5.77	-4.27	-5.62	-4.12	-5.47	-3.97
800	-5.93	-3.98	-5.87	-3.93	-5.66	-3.71	-5.61	-3.66
700	-5.91	-4.03	-5.88	-4.00	-5.64	-3.77	-5.67	-3.80
600	-5.85	-3.74	-5.83	-3.72	-5.59	-3.48	-5.65	-3.55
500	-5.75	-3.77	-5.74	-3.77	-5.50	-3.52	-5.59	-3.61
400	-5.63	-4.05	-5.62	-4.05	-5.37	-3.80	-5.49	-3.91
300	-5.46	-3.43	-5.45	-3.43	-5.20	-3.18	-5.33	-3.30
200	-5.22	-2.81	-5.22	-2.80	-4.98	-2.56	-5.11	-2.69
100	-4.83	-2.25	-4.83	-2.25	-4.60	-2.02	-4.75	-2.17
32	-4.21*	-6.91	-4.21*	-6.91	-4.01*	-6.71	-4.15*	-6.85
8	-3.42*	-6.32	-3.42*	-6.32	-3.25*	-6.15	-3.40*	-6.30

V COMPONENT (M/SEC)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.84*	3.17	1.83*	3.16	1.33*	2.66	1.33*	2.66
1000	-0.57	-0.17	-1.50	-1.10	-0.27	0.13	-1.01	-0.61
900	-1.74	-1.39	-1.97	-1.62	-1.33	-0.98	-1.40	-1.05
800	-2.31	-1.64	-2.39	-1.72	-1.87	-1.20	-1.82	-1.15
700	-2.72	-1.88	-2.77	-1.93	-2.28	-1.44	-2.23	-1.39
600	-3.05	-1.57	-3.07	-1.60	-2.62	-1.14	-2.59	-1.11
500	-3.30	-0.93	-3.33	-0.94	-2.87	-0.51	-2.90	-0.53
400	-3.51	-0.27	[illegible]	-0.28	-3.09	0.15	-3.19	0.05
300	-3.69	-1.39	[illegible]	-1.34	-3.25	-0.92	-3.43	-1.10
200	-3.73	-2.67	-3.76	-2.88	-3.36	-2.48	-3.62	-2.74
100	-3.70	-3.70	-3.70	-3.70	-3.33	-3.33	-3.69	-3.69
32	-3.38	-2.06	-3.39	-2.07	-3.05	-1.73	-3.37	-2.15
8	-2.79	-1.44	-2.80	-1.45	-2.55	-1.18	-2.92	-1.57

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	183.0		184.0		185.0		186.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.45	0.15	16.43	0.13	16.45	0.15	16.34	0.04
900	17.07	0.17	17.06	0.16	17.09	0.19	17.04	0.14
800	17.28	0.08	17.27	0.07	17.29	0.09	17.29	0.09
700	17.39	-0.41	17.39	-0.41	17.41	-0.39	17.40	-0.40
600	17.43	-0.77	17.43	-0.77	17.45	-0.75	17.43	-0.77
500	17.49	-1.31	17.48	-1.32	17.50	-1.30	17.45	-1.35
400	17.51	-1.49	17.50	-1.50	17.53	-1.47	17.44	-1.56
300	17.56	-1.34	17.56	-1.34	17.59	-1.31	17.45	-1.45
200	17.63	-0.97	17.63	-0.97	17.64	-0.96	17.49	-1.11
100	17.76	-0.74	17.77	-0.73	17.77	-0.73	17.64	-0.86
32	18.01	-0.79	18.01	-0.79	18.01	-0.79	18.01	-0.79
8	18.39	-1.11	18.39	-1.11	18.41	-1.09	18.69	-0.81
2	19.36	-0.54	19.35	-0.55	19.37	-0.53	20.40	0.50
0	20.11	XXXX	20.10	XXXX	20.14	XXXX	21.98	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.94	0.13	6.91	0.10	6.94	0.13	6.84	0.03
900	7.41	0.35	7.38	0.32	7.41	0.35	7.32	0.26
800	7.69	0.37	7.68	0.36	7.69	0.37	7.61	0.29
700	7.97	0.39	7.94	0.36	7.96	0.38	7.90	0.32
600	8.18	0.33	8.17	0.32	8.18	0.33	8.12	0.27
500	8.43	0.29	8.43	0.29	8.43	0.29	8.36	0.22
400	8.65	0.22	8.64	0.21	8.65	0.22	8.59	0.16
300	8.91	0.32	8.91	0.31	8.92	0.32	8.91	0.31
200	9.19	0.52	9.19	0.52	9.21	0.54	9.23	0.56
100	9.59	0.86	9.58	0.85	9.59	0.86	9.76	1.05
32	10.07	4.48	10.06	4.47	10.09	4.50	10.63	5.04
8	10.61	5.02	10.61	5.02	10.63	5.04	11.71	6.12
2	11.81	11.81	11.81	11.81	11.84	11.84	14.25	14.25
0	12.74	XXXX	12.74	XXXX	12.81	XXXX	16.60	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	183.0		184.0		185.0		186.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	19.71	-2.79	19.71	-2.79	19.72	-2.78	19.87	-2.63
-0.125	23.74	1.52	23.75	1.53	23.75	1.53	23.73	1.51
-0.250	25.54	1.65	25.54	1.65	25.53	1.64	25.53	1.64
-0.500	24.61	1.44	24.61	1.44	24.61	1.44	24.59	1.42
-1.000	20.86	1.47	20.86	1.47	20.86	1.47	20.86	1.47
-2.000	24.44	5.22	24.45	5.23	24.44	5.22	24.45	5.23

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.44	1.24	4.44	1.24	4.14	0.94	4.50	1.30
2	1.94	-0.56	1.94	-0.56	1.84	-0.66	2.17	-0.33

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	11.89	-0.01	11.89	-0.01	11.88	-0.02	11.89	-0.01
R(N)	6.11	XXXX	6.11	XXXX	6.10	XXXX	5.89	XXXX
Q(C,0)	1.69	XXXX	1.70	XXXX	1.69	XXXX	1.32	XXXX
Q(E,0)	4.30	XXXX	4.30	XXXX	4.29	XXXX	3.96	XXXX
Q(S,0)	0.12	XXXX	0.12	XXXX	0.12	XXXX	0.61	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	13.06	XXXX	13.08	XXXX	11.94	XXXX	5.32	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	3.10	XXXX	3.10	XXXX	3.20	XXXX	3.20	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	5459	5459	5459	5459
TAPE NO.	187.0	188.0	189.0	190.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-7.50	0.03	-7.49	0.04	-7.50	0.03	-7.49	0.03
1000	-6.79	-5.30	-6.42	-4.93	-6.41	-4.93	-5.79	-4.30
900	-6.67	-5.17	-6.61	-5.11	-6.61	-5.11	-5.56	-4.06
800	-6.73	-4.78	-6.71	-4.76	-6.71	-4.76	-5.65	-3.70
700	-6.67	-4.79	-6.66	-4.78	-6.66	-4.79	-5.68	-3.81
600	-6.54	-4.43	-6.54	-4.43	-6.53	-4.43	-5.66	-3.56
500	-6.36	-4.38	-6.36	-4.38	-6.36	-4.38	-5.59	-3.61
400	-6.14	-4.56	-6.14	-4.56	-6.14	-4.56	-5.49	-3.91
300	-5.88	-3.85	-5.88	-3.85	-5.88	-3.85	-5.33	-3.30
200	-5.55	-3.14	-5.55	-3.14	-5.56	-3.14	-5.11	-2.70
100	-5.09	-2.51	-5.09	-2.51	-5.09	-2.51	-4.75	-2.17
32	-4.40*	-7.10	-4.40*	-7.10	-4.40*	-7.10	-4.15*	-6.85
8	-3.59*	-6.49	-3.59*	-6.49	-3.59*	-6.49	-3.40*	-6.30

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.33*	2.66	1.33*	2.66	1.33*	2.66	1.33*	2.66
1000	-0.48	-0.08	-1.36	-0.96	-1.36	-0.96	-0.13	0.27
900	-1.79	-1.44	-1.94	-1.59	-1.93	-1.58	-1.23	-0.88
800	-2.69	-2.02	-2.73	-2.06	-2.73	-2.06	-1.76	-1.09
700	-3.06	-2.22	-3.08	-2.24	-3.08	-2.24	-2.21	-1.37
600	-3.33	-1.85	-3.34	-1.86	-3.33	-1.85	-2.58	-1.10
500	-3.53	-1.16	-3.54	-1.16	-3.54	-1.17	-2.89	-0.52
400	-3.72	-0.48	-3.72	-0.48	-3.72	-0.48	-3.18	0.06
300	-3.86	-1.53	-3.86	-1.53	-3.86	-1.53	-3.43	-1.10
200	-3.96	-3.08	-3.96	-3.08	-3.96	-3.08	-3.62	-2.74
100	-3.95	-3.95	-3.94	-3.94	-3.95	-3.95	-3.69	-3.69
32	-3.65	-2.33	-3.64	-2.32	-3.64	-2.32	-3.47	-2.15
8	-3.05	-1.70	-3.05	-1.70	-3.05	-1.70	-2.92	-1.57

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	187.0		188.0		189.0		190.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.37	0.07	16.38	0.08	16.38	0.08	16.35	0.05
900	17.10	0.20	17.11	0.21	17.08	0.18	17.03	0.13
800	17.36	0.16	17.36	0.16	17.31	0.11	17.25	0.05
700	17.49	-0.31	17.49	-0.31	17.39	-0.41	17.31	-0.49
600	17.51	-0.69	17.51	-0.69	17.45	-0.85	17.27	-0.93
500	10.07	-8.73	17.53	-1.27	17.29	-1.51	17.22	-1.58
400	17.49	-1.51	17.50	-1.50	17.16	-1.84	17.11	-1.89
300	17.51	-1.39	17.51	-1.39	17.03	-1.87	16.99	-1.91
200	17.53	-1.07	17.53	-1.07	16.85	-1.75	16.83	-1.77
100	17.69	-0.81	17.66	-0.84	16.72	-1.78	16.71	-1.79
32	18.01	-0.79	18.02	-0.78	16.63	-2.17	16.62	-2.18
8	18.68	-0.82	18.69	-0.81	16.84	-2.66	16.84	-2.66
2	20.40	0.50	20.41	0.51	17.61	-2.29	17.60	-2.30
0	21.98	XXXX	21.99	XXXX	18.23	XXXX	18.23	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.83	0.02	6.84	0.03	6.84	0.03	6.88	0.07
900	7.32	0.26	7.33	0.27	7.31	0.25	7.34	0.28
800	7.62	0.30	7.63	0.31	7.59	0.27	7.63	0.29
700	7.91	0.53	7.91	0.53	7.85	0.47	7.85	0.47
600	8.10	0.25	8.11	0.26	8.03	0.18	8.05	0.20
500	8.35	0.21	8.35	0.21	8.23	0.09	8.25	0.11
400	8.56	0.13	8.56	0.13	8.40	-0.03	8.44	0.01
300	8.85	0.25	8.85	0.25	8.62	0.02	8.66	0.06
200	9.17	0.50	9.18	0.51	8.85	0.18	8.91	0.24
100	9.73	1.00	9.73	1.00	9.23	0.50	9.28	0.55
32	10.58	4.99	10.58	4.99	9.81	4.22	9.86	4.27
8	11.69	6.10	11.69	6.10	10.59	5.00	10.62	5.03
2	14.23	14.23	14.23	14.23	12.50	12.50	12.51	12.51
0	16.57	XXXX	16.58	XXXX	14.04	XXXX	14.07	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	187.0	188.0	189.0	190.0
INTERVAL	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	19.88	-2.62	19.88	-2.62	6.25	-14.25	8.26	-14.24
-0.125	23.73	1.51	23.73	1.51	21.47	-0.75	21.46	-0.76
-0.250	25.53	1.64	25.53	1.64	25.39	1.50	25.39	1.50
-0.500	24.61	1.44	24.61	1.44	24.61	1.44	24.60	1.43
-1.000	20.86	1.47	20.86	1.47	20.85	1.46	20.85	1.46
-2.000	24.45	5.23	24.44	5.22	20.68	1.46	20.67	1.45

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.73	1.53	4.73	1.53	4.73	1.53	4.49	1.29
2	2.27	-0.23	2.27	-0.23	2.11	-0.39	2.03	-0.47

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	11.89	-0.01	11.91	0.01	11.91	0.01	11.91	0.01
R(N)	5.69	XXXX	5.90	XXXX	6.22	XXXX	6.22	XXXX
Q(C,0)	1.31	XXXX	1.32	XXXX	0.55	XXXX	0.56	XXXX
Q(L,0)	3.97	XXXX	3.97	XXXX	2.80	XXXX	2.80	XXXX
Q(S,0)	0.61	XXXX	0.61	XXXX	2.86	XXXX	2.86	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	5.58	XXXX	5.58	XXXX	5.58	XXXX	5.32	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	3.20	XXXX	3.20	XXXX	1.90	XXXX	1.70	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	5459	5464	5464	1119
TAPE NO.	191.0	192.0	194.0	196.0
INTERVAL	2HR	2HR	2HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-7.49	0.03	-8.95	-1.42	-8.95	-1.42	-10.01	0.03
1000	-5.24	-3.76	-7.24	-5.76	-5.51	-4.02	-4.96	-4.03
900	-5.47	-3.97	-7.20	-5.70	-5.73	-4.23	-5.04	-3.92
800	-5.61	-3.66	-7.12	-5.18	-5.88	-3.93	-5.11	-3.80
700	-5.67	-3.79	-7.00	-5.12	-5.93	-4.06	-5.23	-3.70
600	-5.66	-3.55	-6.85	-4.74	-5.92	-3.81	-5.26	-3.35
500	-5.59	-3.61	-6.65	-4.68	-5.86	-3.88	-5.31	-3.02
400	-5.49	-3.91	-6.42	-4.84	-5.75	-4.17	-5.39	-2.72
300	-5.33	-3.30	-6.15	-4.12	-5.60	-3.57	-5.42	-3.09
200	-5.11	-2.69	-5.82	-3.41	-5.37	-2.96	-4.80	-4.02
100	-4.75	-2.17	-5.35	-2.77	-5.01	-2.43	-2.39	-1.61
32	-4.15*	-6.85	-4.63*	-7.33	-4.38*	-7.08	1.92	-1.31
8	-3.39*	-6.29	-3.79*	-6.69	-3.59*	-6.49	3.29	0.60

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-3.69	-2.36	1.83*	3.16	1.83*	3.16	1.77*	3.54
1000	-3.47	-3.07	-3.38	-2.98	-1.44	-1.04	-1.40	0.43
900	-2.92	-2.57	-3.39	-3.04	-1.83	-1.48	-1.52	0.20
800	1.01*	1.68	-3.51	-2.84	-2.26	-1.59	-1.69	-0.11
700	1.02*	1.86	-3.66	-2.82	-2.67	-1.83	-1.88	-0.51
600	-1.33	0.15	-3.84	-2.36	-3.03	-1.56	-1.97	-0.25
500	1.01*	3.38	-4.01	-1.64	-3.34	-0.97	-2.03	0.04
400	1.40*	4.64	-4.17	-0.93	-3.62	-0.39	-2.11	0.30
300	1.62*	4.15	-4.30	-1.97	-3.86	-1.53	-2.57	-0.54
200	2.23*	3.11	-4.39	-3.51	-4.05	-3.17	-5.40	-4.72
100	2.59	2.59	-4.35	-4.35	-4.10	-4.10	-5.32	-4.64
32	2.90*	4.22	-4.03	-2.71	-3.85	-2.53	-3.01	-1.96
8	3.18*	4.53	-3.38	-2.03	-3.24	-1.90	-1.16	-0.88

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	191.0		192.0		194.0		196.0	
INTERVAL	2HR		2HR		2HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.34	0.04	16.37	0.07	16.33	0.03	15.97	-0.73
900	17.02	0.13	17.08	0.18	17.02	0.12	16.51	-0.99
800	17.24	0.04	17.31	0.11	17.24	0.04	17.21	-0.69
700	17.31	-0.49	17.39	-0.41	17.31	-0.49	17.91	-0.49
600	17.27	-0.93	17.35	-0.85	17.26	-0.94	18.22	-0.48
500	17.22	-1.58	17.29	-1.51	17.21	-1.59	18.29	-0.71
400	17.09	-1.91	17.16	-1.84	17.09	-1.91	18.27	-1.13
300	16.99	-1.91	17.03	-1.87	16.99	-1.91	18.25	-0.95
200	16.83	-1.77	16.86	-1.74	16.82	-1.78	18.06	-0.84
100	16.71	-1.79	16.72	-1.78	16.70	-1.80	16.30	-1.70
32	16.62	-2.18	16.63	-2.17	16.62	-2.18	15.76	-1.64
8	16.83	-2.67	16.83	-2.67	16.83	-2.67	14.54	-2.56
2	17.59	-2.31	17.61	-2.29	17.61	-2.29	12.90	-5.70
0	18.22	XXXX	18.22	XXXX	18.23	XXXX	11.23	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.85	0.04	6.84	0.03	6.84	0.03	6.59	1.94
900	7.31	0.25	7.32	0.26	7.31	0.25	6.90	1.74
800	7.61	0.29	7.59	0.27	7.58	0.26	7.24	1.56
700	7.84	0.26	7.85	0.27	7.83	0.25	7.62	1.19
600	8.03	0.18	8.03	0.18	8.03	0.18	7.85	0.79
500	8.26	0.12	8.23	0.09	8.24	0.10	8.24	0.66
400	8.43	0.0	8.39	-0.04	8.41	-0.02	8.61	0.47
300	8.65	0.05	8.62	0.02	8.65	0.05	8.99	0.80
200	8.90	0.23	8.85	0.18	8.90	0.23	9.26	1.68
100	9.29	0.56	9.23	0.50	9.28	0.55	8.93	2.41
32	9.85	4.26	9.80	4.21	9.84	4.25	7.60	2.08
8	10.62	5.03	10.59	5.00	10.62	5.03	7.85	2.01
2	12.52	12.52	12.52	12.52	12.53	12.53	9.77	9.77
0	14.08	XXXX	14.04	XXXX	14.07	XXXX	11.74	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	191.0		192.0		194.0		196.0	
INTERVAL	2HR		2HR		2HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	8.26	-14.24	8.25	-14.25	8.26	-14.24	1.94	-4.85
-0.125	21.47	-0.75	21.46	-0.76	21.47	-0.75	22.53	-0.97
-0.250	25.38	1.49	25.39	1.50	25.40	1.51	25.62	0.90
-0.500	24.61	1.44	24.61	1.44	24.61	1.44	24.64	0.81
-1.000	20.85	1.46	20.85	1.46	20.85	1.46	20.84	0.84
-2.000	20.68	1.46	20.67	1.45	20.67	1.45	20.68	0.90

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.50	1.30	5.09	1.89	4.86	1.66	3.49	0.79
2	2.03	-0.47	2.24	-0.26	2.17	-0.33	1.76	-0.14

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	11.90	-0.00	11.89	-0.01	11.90	0.00	6.62	0.02
R(N)	6.21	XXXX	6.22	XXXX	6.21	XXXX	3.01	XXXX
Q(C,0)	0.56	XXXX	0.55	XXXX	0.56	XXXX	-0.25	XXXX
Q(E,0)	2.80	XXXX	2.80	XXXX	2.79	XXXX	0.63	XXXX
Q(S,0)	2.86	XXXX	2.86	XXXX	2.86	XXXX	2.66	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	5.32	XXXX	6.02	XXXX	5.74	XXXX	0.82	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.60	XXXX	1.60	XXXX	1.70	XXXX	0.0	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1114	1094	1029	1024
TAPE NO.	197.0	198.0	199.0	200.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.00	0.04	-10.01	0.03	-8.95	1.09	-8.95	1.09
1000	-5.64	-4.71	-5.69	-4.76	-4.96	-4.03	-5.54	-4.61
900	-5.05	-3.93	-5.69	-4.57	-5.03	-3.91	-5.04	-3.92
800	-5.12	-3.80	-5.69	-4.37	-5.10	-3.78	-5.10	-3.78
700	-5.24	-3.71	-5.69	-4.16	-5.23	-3.70	-5.22	-3.69
600	-5.26	-3.35	-5.68	-3.77	-5.25	-3.34	-5.26	-3.35
500	-5.31	-3.02	-5.67	-3.38	-5.31	-3.02	-5.31	-3.02
400	-5.39	-2.72	-5.67	-2.99	-5.37	-2.70	-5.37	-2.70
300	-5.43	-3.10	-5.65	-3.32	-5.41	-3.09	-5.42	-3.09
200	-4.80	-4.02	-4.95	-4.17	-4.78	-4.00	-4.78	-4.00
100	-2.39	-1.61	-2.47	-1.69	-2.39	-1.61	-2.39	-1.61
32	1.92	-1.31	1.91	-1.32	1.93	-1.30	1.93	-1.30
8	3.29	0.60	3.29	0.60	3.30	0.61	3.30	0.61

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.77*	3.54	1.77*	3.54	1.83*	3.60	1.83*	3.60
1000	-0.81	1.02	-2.55	-0.72	-1.22	0.61	-0.65	1.18
900	-1.51	0.22	-2.51	-0.78	-1.34	0.39	-1.33	0.40
800	-1.68	-0.10	-2.51	-0.93	-1.51	0.07	-1.51	0.07
700	-1.88	-0.50	-2.48	-1.11	-1.70	-0.33	-1.70	-0.32
600	-1.96	-0.24	-2.46	-0.74	-1.79	-0.07	-1.79	-0.07
500	-2.03	0.03	-2.45	-0.38	-1.87	0.20	-1.85	0.22
400	-2.11	0.30	-2.45	-0.05	-1.95	0.46	-1.94	0.47
300	-2.57	-0.54	-2.82	-0.79	-2.39	-0.36	-2.39	-0.36
200	-5.41	-4.73	-5.57	-4.89	-5.22	-4.54	-5.22	-4.54
100	-5.32	-4.64	-5.41	-4.73	-5.14	-4.46	-5.14	-4.46
32	-3.01	-1.96	-3.01	-1.96	-2.82	-1.77	-2.82	-1.78
8	-1.16	-0.88	-1.16	-0.88	-0.99	-0.71	-0.99	-0.71

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	197.0		198.0		199.0		200.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	15.97	-0.73	15.98	-0.72	15.97	-0.73	15.97	-0.73
900	16.52	-0.98	16.53	-0.97	16.51	-0.99	16.52	-0.98
800	17.19	-0.71	17.21	-0.69	17.19	-0.71	17.20	-0.70
700	17.91	-0.49	17.93	-0.47	17.91	-0.49	17.91	-0.49
600	18.23	-0.47	18.26	-0.44	18.22	-0.48	18.22	-0.48
500	18.29	-0.71	18.33	-0.67	18.30	-0.70	18.30	-0.70
400	18.26	-1.14	18.31	-1.09	18.27	-1.13	18.27	-1.13
300	18.26	-0.94	18.30	-0.90	18.26	-0.94	18.26	-0.94
200	18.06	-0.84	18.09	-0.81	18.05	-0.85	18.05	-0.85
100	16.29	-1.71	16.32	-1.68	16.29	-1.71	16.31	-1.69
32	15.76	-1.64	15.77	-1.63	15.75	-1.65	15.75	-1.65
8	14.54	-2.56	14.54	-2.56	14.53	-2.57	14.54	-2.56
2	12.90	-5.70	12.90	-5.70	12.91	-5.69	12.93	-5.67
0	11.23	XXXX	11.22	XXXX	11.25	XXXX	11.29	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.61	1.96	6.59	1.94	6.61	1.96	6.61	1.96
900	6.91	1.75	6.90	1.74	6.90	1.74	6.91	1.75
800	7.24	1.56	7.24	1.56	7.23	1.55	7.24	1.56
700	7.62	1.19	7.62	1.19	7.63	1.20	7.62	1.19
600	7.84	0.78	7.86	0.80	7.85	0.79	7.84	0.78
500	8.24	0.66	8.24	0.66	8.24	0.66	8.24	0.66
400	8.61	0.47	8.61	0.47	8.61	0.47	8.62	0.48
300	8.96	0.77	8.97	0.78	8.99	0.80	8.96	0.77
200	9.26	1.68	9.26	1.68	9.26	1.68	9.26	1.68
100	8.94	2.42	8.93	2.41	8.93	2.41	8.93	2.41
32	7.60	2.08	7.61	2.09	7.61	2.09	7.61	2.09
8	7.84	2.00	7.85	2.01	7.85	2.01	7.85	2.01
2	9.76	9.76	9.77	9.77	9.81	9.81	9.83	9.83
0	11.73	XXXX	11.74	XXXX	11.81	XXXX	11.85	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	197.0		198.0		199.0		200.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	1.93	-4.86	1.93	-4.86	1.94	-4.85	1.94	-4.85
-0.125	22.53	-0.97	22.53	-0.97	22.53	-0.97	22.53	-0.97
-0.250	25.61	0.89	25.61	0.89	25.62	0.90	25.61	0.89
-0.500	24.63	0.80	24.63	0.80	24.62	0.79	24.63	0.80
-1.000	20.84	0.84	20.84	0.84	20.83	0.83	20.84	0.84
-2.000	20.67	0.89	20.67	0.89	20.68	0.90	20.67	0.89

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.49	0.79	3.49	0.79	3.45	0.75	3.44	0.74
2	1.77	-0.13	1.76	-0.14	1.74	-0.16	1.74	-0.16

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	6.66	0.06	6.65	0.05	6.64	0.04	6.65	0.05
R(N)	3.04	XXXX	3.02	XXXX	3.02	XXXX	3.03	XXXX
Q(C,0)	-0.26	XXXX	-0.25	XXXX	-0.23	XXXX	-0.24	XXXX
Q(E,0)	0.63	XXXX	0.62	XXXX	0.60	XXXX	0.61	XXXX
Q(S,0)	2.67	XXXX	2.67	XXXX	2.67	XXXX	2.67	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.82	XXXX	0.72	XXXX	0.74	XXXX	0.72	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.10	XXXX	0.0	XXXX	0.0	XXXX	0.10	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1014	1024	7494	7509
TAPE NO.	201.0	202.0	203.0	204.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	1.09	-8.95	1.09	-8.95	1.09	-8.95	1.09
1000	-6.19	-5.26	-5.67	-4.74	-5.67	-4.74	-5.51	-4.58
900	-5.68	-4.56	-5.68	-4.56	-5.67	-4.55	-5.08	-3.96
800	-5.67	-4.35	-5.67	-4.35	-5.67	-4.35	-5.14	-3.82
700	-5.68	-4.15	-5.68	-4.15	-5.66	-4.13	-5.20	-3.68
600	-5.67	-3.76	-5.67	-3.76	-5.61	-3.70	-5.21	-3.30
500	-5.66	-3.37	-5.66	-3.37	-5.47	-3.18	-5.14	-2.85
400	-5.66	-2.98	-5.66	-2.98	-5.20	-2.53	-4.93	-2.26
300	-5.63	-3.30	-5.63	-3.30	-4.72	-2.39	-4.50	-2.17
200	-4.94	-4.16	-4.94	-4.16	-3.96	-3.18	-3.80	-3.02
100	-2.47	-1.69	-2.47	-1.69	-2.81	-2.03	-2.71	-1.93
32	1.92	-1.31	1.92	-1.31	-1.71*	-4.94	-1.65*	-4.88
8	3.29	0.60	3.29	0.60	-1.20*	-3.89	-1.15*	-3.84

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.83*	3.60	1.83*	3.60	1.83*	3.60	1.83*	3.60
1000	-1.72	0.11	-2.37	-0.54	-2.36	-0.53	-0.69	1.14
900	-2.33	-0.60	-2.33	-0.60	-2.33	-0.60	-1.33	0.40
800	-2.32	-0.74	-2.32	-0.74	-2.32	-0.74	-1.54	0.04
700	-2.30	-0.93	-2.30	-0.93	-2.34	-0.97	-1.73	-0.35
600	-2.28	-0.57	-2.28	-0.57	-2.43	-0.71	-1.94	-0.22
500	-2.26	-0.19	-2.26	-0.19	-2.62	-0.56	-2.21	-0.14
400	-2.27	0.14	-2.26	0.15	-2.95	-0.55	-2.61	-0.20
300	-2.64	-0.61	-2.64	-0.61	-3.33	-1.30	-3.08	-1.05
200	-5.39	-4.71	-5.39	-4.71	-3.70	-3.02	-3.53	-2.85
100	-5.22	-4.54	-5.22	-4.54	-3.84	-3.16	-3.73	-3.05
32	-2.82	-1.78	-2.83	-1.78	-3.53	-2.48	-3.47	-2.42
8	-0.99	-0.71	-0.99	-0.71	-2.93	-2.65	-2.90	-2.62

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	201.0		202.0		203.0		204.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	15.98	-0.72	15.98	-0.72	16.09	-0.61	16.08	-0.62
900	16.53	-0.97	16.53	-0.97	16.82	-0.68	16.81	-0.69
800	17.22	-0.68	17.22	-0.68	17.41	-0.49	17.39	-0.51
700	17.92	-0.48	17.92	-0.48	17.81	-0.59	17.79	-0.61
600	18.26	-0.44	18.25	-0.45	17.98	-0.72	17.95	-0.75
500	18.33	-0.67	18.33	-0.67	18.04	-0.96	18.02	-0.98
400	18.31	-1.09	18.31	-1.09	17.95	-1.45	17.92	-1.48
300	18.30	-0.90	18.31	-0.89	17.77	-1.43	17.75	-1.45
200	18.09	-0.81	18.09	-0.81	17.47	-1.43	17.48	-1.42
100	16.33	-1.67	16.32	-1.68	17.13	-0.87	17.12	-0.88
32	15.76	-1.64	15.76	-1.64	16.79	-0.61	16.79	-0.61
8	14.54	-2.56	14.55	-2.55	16.76	-0.34	16.76	-0.34
2	12.91	-5.69	12.92	-5.68	16.99	-1.61	16.99	-1.61
0	11.25	XXXX	11.25	XXXX	17.02	XXXX	17.04	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.61	1.96	6.61	1.96	6.64	1.99	6.65	2.00
900	6.91	1.75	6.90	1.74	7.02	1.86	7.03	1.87
800	7.23	1.55	7.23	1.55	7.37	1.69	7.38	1.70
700	7.63	1.20	7.63	1.20	7.72	1.29	7.71	1.28
600	7.85	0.79	7.85	0.79	7.99	0.93	8.01	0.95
500	8.25	0.67	8.25	0.67	8.28	0.70	8.27	0.69
400	8.62	0.48	8.61	0.47	8.47	0.33	8.48	0.34
300	8.99	0.80	8.97	0.78	8.69	0.50	8.69	0.50
200	9.26	1.68	9.27	1.69	8.84	1.26	8.85	1.27
100	8.94	2.42	8.93	2.41	9.12	2.60	9.14	2.62
32	7.60	2.08	7.61	2.09	9.57	4.05	9.58	4.06
8	7.86	2.02	7.85	2.01	10.19	4.35	10.20	4.36
2	9.83	9.83	9.83	9.83	12.33	12.33	12.25	12.25
0	11.85	XXXX	11.84	XXXX	12.65	XXXX	12.68	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	201.0		202.0		203.0		204.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	1.94	-4.85	1.94	-4.85	16.42	11.63	16.43	11.64
-0.125	22.53	-0.97	22.52	-0.98	24.02	0.52	24.02	0.52
-0.250	25.61	0.89	25.62	0.90	25.66	0.94	25.66	0.94
-0.500	24.62	0.79	24.63	0.80	24.63	0.80	24.63	0.80
-1.000	20.83	0.83	20.84	0.84	20.84	0.84	20.85	0.85
-2.000	20.68	0.90	20.69	0.91	24.44	4.66	24.43	4.65

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.44	0.74	3.44	0.74	3.17	0.47	3.13	0.43
2	1.74	-0.16	1.74	-0.16	0.41	-1.49	0.54	-1.36

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	6.64	0.04	6.65	0.05	6.65	0.05	6.66	0.06
R(N)	3.02	XXXX	3.03	XXXX	2.48	XXXX	2.49	XXXX
Q(C,0)	-0.23	XXXX	-0.24	XXXX	0.14	XXXX	0.14	XXXX
Q(E,0)	0.59	XXXX	0.59	XXXX	2.75	XXXX	2.74	XXXX
Q(S,0)	2.67	XXXX	2.67	XXXX	-0.40	XXXX	-0.40	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.72	XXXX	0.74	XXXX	5.14	XXXX	5.06	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.10	XXXX	0.10	XXXX	0.90	XXXX	0.90	XXXX

CASE DPG 2 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	7454	5454	5444	5444
TAPE NO.	205.0	206.0	207.0	208.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.95	1.05	-10.01	0.03	-10.01	0.03	-10.01	0.03
1000	-4.96	-4.03	-4.98	-4.05	-6.24	-5.31	-5.69	-4.76
900	-5.05	-3.93	-5.06	-3.94	-5.72	-4.60	-5.68	-4.56
800	-5.14	-3.82	-5.14	-3.82	-5.67	-4.35	-5.66	-4.35
700	-5.20	-3.67	-5.14	-3.61	-5.60	-4.07	-5.60	-4.07
600	-5.21	-3.30	-5.08	-3.17	-5.47	-3.56	-5.47	-3.56
500	-5.13	-2.84	-4.91	-2.62	-5.24	-2.95	-5.25	-2.96
400	-4.93	-2.26	-4.65	-1.98	-4.93	-2.25	-4.92	-2.24
300	-4.51	-2.18	-4.27	-1.94	-4.49	-2.16	-4.49	-2.16
200	-3.81	-3.03	-3.77	-2.99	-3.94	-3.16	-3.93	-3.15
100	-2.71	-1.93	-3.11	-2.33	-3.21	-2.43	-3.22	-2.44
32	-1.65*	-4.88	-2.44*	-5.67	-2.51*	-5.74	-2.51*	-5.74
8	-1.16*	-3.85	-1.93*	-4.62	-1.97*	-4.66	-1.97*	-4.66

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.83*	3.60	1.77*	3.54	1.77*	3.54	1.77*	3.54
1000	-1.22	0.61	-1.41	0.41	-1.94	-0.11	-2.54	-0.71
900	-1.37	0.35	-1.57	0.15	-2.46	-0.73	-2.51	-0.78
800	-1.55	0.03	-1.78	-0.20	-2.53	-0.95	-2.54	-0.96
700	-1.73	-0.36	-2.01	-0.63	-2.61	-1.24	-2.61	-1.24
600	-1.94	-0.22	-2.28	-0.56	-2.76	-1.05	-2.76	-1.05
500	-2.21	-0.14	-2.56	-0.49	-2.95	-0.89	-2.96	-0.89
400	-2.61	-0.20	-2.86	-0.45	-3.19	-0.78	-3.19	-0.78
300	-3.08	-1.05	-3.16	-1.14	-3.42	-1.39	-3.42	-1.39
200	-3.53	-2.85	-3.43	-2.75	-3.61	-2.93	-3.62	-2.94
100	-3.73	-3.05	-3.56	-2.88	-3.68	-3.00	-3.68	-3.00
32	-3.46	-2.41	-3.38	-2.33	-3.46	-2.41	-3.45	-2.41
8	-2.69	-2.61	-2.86	-2.58	-2.91	-2.63	-2.91	-2.63

CASE DPG 2 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	205.0		206.0		207.0		208.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.08	-0.62	16.17	-0.53	16.19	-0.51	16.19	-0.51
900	16.81	-0.69	16.96	-0.54	16.99	-0.51	16.99	-0.51
800	17.39	-0.51	17.42	-0.48	17.45	-0.45	17.45	-0.45
700	17.79	-0.61	17.68	-0.72	17.72	-0.68	17.71	-0.69
600	17.94	-0.76	17.77	-0.93	17.81	-0.89	17.81	-0.89
500	18.02	-0.98	17.81	-1.19	17.83	-1.17	17.83	-1.17
400	17.92	-1.48	17.72	-1.68	17.74	-1.66	17.73	-1.67
300	17.75	-1.45	17.59	-1.61	17.60	-1.60	17.59	-1.61
200	17.47	-1.43	17.41	-1.49	17.40	-1.50	17.41	-1.49
100	17.12	-0.88	17.19	-0.81	17.19	-0.81	17.19	-0.81
32	16.79	-0.61	16.96	-0.44	16.94	-0.46	16.95	-0.45
8	16.76	-0.34	16.96	-0.14	16.95	-0.15	16.95	-0.15
2	16.96	-1.64	17.22	-1.38	17.20	-1.40	17.22	-1.38
0	17.02	XXXX	17.36	XXXX	17.34	XXXX	17.35	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.64	1.99	6.68	2.03	6.70	2.05	6.67	2.02
900	7.02	1.86	7.11	1.95	7.11	1.95	7.12	1.96
800	7.37	1.69	7.45	1.77	7.45	1.77	7.45	1.77
700	7.71	1.28	7.76	1.33	7.76	1.33	7.77	1.34
600	7.99	0.93	8.01	0.95	8.01	0.95	8.01	0.95
500	8.27	0.69	8.25	0.67	8.24	0.66	8.24	0.66
400	8.46	0.34	8.43	0.29	8.42	0.28	8.42	0.28
300	8.68	0.49	8.65	0.46	8.63	0.44	8.64	0.45
200	8.86	1.28	8.87	1.29	8.85	1.27	8.85	1.27
100	9.14	2.62	9.22	2.70	9.21	2.69	9.19	2.67
32	9.58	4.06	9.73	4.21	9.71	4.19	9.72	4.20
8	10.20	4.36	10.42	4.58	10.41	4.57	10.41	4.57
2	12.12	12.12	12.50	12.50	12.50	12.50	12.50	12.50
0	12.68	XXXX	13.59	XXXX	13.55	XXXX	13.56	XXXX

CASE DPG 2 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	205.0		206.0		207.0		208.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	18.42	11.63	18.22	11.43	18.22	11.43	18.21	11.42
-0.125	24.02	0.52	24.02	0.52	24.01	0.51	24.01	0.51
-0.250	25.66	0.94	25.66	0.94	25.66	0.94	25.66	0.94
-0.500	24.64	0.81	24.63	0.80	24.62	0.79	24.62	0.79
-1.000	20.85	0.85	20.84	0.84	20.84	0.84	20.84	0.84
-2.000	24.44	4.66	24.44	4.66	24.44	4.66	24.43	4.65

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.13	0.43	3.46	0.76	3.53	0.83	3.53	0.83
2	0.70	-1.20	1.19	-0.71	1.18	-0.72	1.18	-0.72

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	6.65	0.05	6.65	0.05	6.63	0.03	6.60	-0.00
R(N)	2.47	XXXX	2.45	XXXX	2.45	XXXX	2.46	XXXX
Q(C,0)	0.15	XXXX	0.15	XXXX	0.15	XXXX	0.15	XXXX
Q(E,0)	2.74	XXXX	2.54	XXXX	2.54	XXXX	2.55	XXXX
Q(S,0)	-0.40	XXXX	-0.24	XXXX	-0.25	XXXX	-0.25	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	5.04	XXXX	4.06	XXXX	4.18	XXXX	4.16	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.00	XXXX	1.20	XXXX	1.10	XXXX	1.30	XXXX

CASE DPG 3 TAPE LOG

TAPE NO.	FCST INT	SM	KMB DB	SCG	ADV	GEO	REMARKS
220.	12	A	V	F	N	O	NONE
221.	12	A	V	F	N	I	NONE
222.	12	A	V	F	F	O	NONE
225.	12	B	V	F	N	O	NONE
239.	6	A	V	F	N	O	NONE
240.	6	A	V	F	N	I	NONE
241.	6	A	V	F	F	O	NONE
255.	2	A	V	A	N	O	NONE
256.	2	A	V	A	N	I	NONE
257.	2	A	V	A	F	O	NONE
258.	2	A	V	F	N	O	NONE
259.	2	A	V	F	N	I	NONE
260.	2	A	V	F	F	O	NONE
264.	2	B	F	A	N	O	NONE
265.	2	B	F	A	F	I	NONE
266.	2	B	F	A	F	O	NONE
267.	2	A	F	A	F	O	NONE
268.	2	A	F	A	N	I	NONE
269.	2	A	F	A	N	O	NONE
270.	2	A	F	F	F	O	NONE
271.	2	A	F	F	F	I	NONE
272.	2	A	F	F	N	O	NONE
274.	1	A	V	A	N	O	NONE
275.	1	A	V	A	N	I	NONE
276.	1	A	V	A	F	O	NONE
277.	1	A	V	F	N	O	NONE
278.	1	A	V	F	N	I	NONE
279.	1	A	V	F	F	O	NONE
283.	1	B	F	A	N	O	NONE
284.	1	B	F	A	F	I	NONE
285.	1	B	F	A	F	O	NONE
286.	1	A	F	A	F	O	NONE
287.	1	A	F	A	N	I	NONE
288.	1	A	F	A	N	O	NONE
289.	1	A	F	F	F	O	NONE
290.	1	A	F	F	F	I	

DPG 03 INITIAL CONDITIONS - 0400C 14 AUGUST 1969
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SOIL PARAMETERS

T'_0 = 3.08 °C T'_{-1} = 22.67 °C $\sqrt{\mu\lambda}$ = 0.036 cal/cm^{4}deg^{2}sec

$T'_{-1/8}$ = 26.83 °C T'_{-2} = 22.56 °C Z_o = 2.0 cm

$T'_{-1/4}$ = 27.61 °C λ = 0.59 cal/cm^{3}deg S_o = .0004 cal/cm^{2}sec mb

$T'_{-1/2}$ = 26.33 °C μ/λ = .0037 cm^4/sec G = 3500. cm^{2}sec deg/cal

RADIATION PARAMETERS

Local Time = 0400 C e'_8 = 6.71 mb F_c = 1.00

ε = 0.950 j = 0.26

δ = 14.665 deg

ϕ = 40.2 deg m = 0.620

R x 10^5 = 1.16 °C/sec

N = 0.20 n = 0.0415 mb$^{-1/2}$

Cloud Class = 1

ψ = 0.976 H = -105.0 deg

HORIZONTAL GRADIENTS

$\frac{\partial e}{\partial x_{200}}$ = 0.72 mb/100 km $\frac{\partial e}{\partial x_{600}}$ = 0.55 mb/100 km $\frac{\partial e}{\partial x_{1000}}$ = 0.37 mb/100 km

$\frac{\partial e}{\partial y_{200}}$ = -0.69 mb/100 km $\frac{\partial e}{\partial y_{600}}$ = -0.73 mb/100 km $\frac{\partial e}{\partial y_{1000}}$ = -0.77 mb/100 km

$\frac{\partial T}{\partial x_{200}}$ = -0.30 °C/100 km $\frac{\partial T}{\partial x_{600}}$ = -0.30 °C/100 km $\frac{\partial T}{\partial x_{1000}}$ = -0.30 °C/100 km

$\frac{\partial T}{\partial y_{200}}$ = 0.07 °C/100 km $\frac{\partial T}{\partial y_{600}}$ = 0.15 °C/100 km $\frac{\partial T}{\partial y_{1000}}$ = 0.23 °C/100 km

DPG 03 INITIAL CONDITIONS - 0400C 14 AUGUST 1969
(page 2 of 2 pages)

WIND COMPONENTS (m/sec)				TEMPERATURE (°C)		VAPOR PRESSURE (mb)	
u_8	= -2.85	v_8	= 2.66	T_8	= 15.60	e_8	= 6.71
u_{32}	= -2.40	v_{32}	= 1.62	T_{32}	= 22.50	e_{32}	= 6.38
u_{100}	= 0.78	v_{100}	= 2.58	T_{100}	= 23.09	e_{100}	= 8.22
u_{200}	= 1.95	v_{200}	= 3.38	T_{200}	= 23.09	e_{200}	= 8.12
u_{300}	= 2.83	v_{300}	= 2.99	T_{300}	= 23.00	e_{300}	= 8.01
u_{400}	= 2.86	v_{400}	= 2.96	T_{400}	= 23.00	e_{400}	= 7.85
u_{500}	= 2.86	v_{500}	= 2.96	T_{500}	= 23.00	e_{500}	= 7.68
u_{600}	= 2.86	v_{600}	= 2.96	T_{600}	= 23.00	e_{600}	= 7.58
u_{700}	= 2.86	v_{700}	= 2.96	T_{700}	= 22.30	e_{700}	= 7.21
u_{800}	= 2.86	v_{800}	= 2.96	T_{800}	= 21.58	e_{800}	= 7.05
u_{900}	= 2.86	v_{900}	= 2.96	T_{900}	= 20.85	e_{900}	= 6.82
u_{1000}	= 2.86	v_{1000}	= 2.96	T_{1000}	= 20.06	e_{1000}	= 6.63

ADVECTION TERMS (sec^{-1})

$\alpha^1_{200} = 0.25 \times 10^{-5}$	$\alpha^1_{600} = 0.27 \times 10^{-5}$	$\alpha^1_{1000} = 0.30 \times 10^{-5}$
$\beta^1_{200} = -0.12 \times 10^{-5}$	$\beta^1_{600} = -0.31 \times 10^{-5}$	$\beta^1_{1000} = -0.50 \times 10^{-5}$
$\alpha^2_{200} = 0.0 \times 10^{-5}$	$\alpha^2_{600} = 0.0 \times 10^{-5}$	$\alpha^2_{1000} = 0.0 \times 10^{-5}$
$\beta^2_{200} = 2.18 \times 10^{-5}$	$\beta^2_{600} = 1.38 \times 10^{-5}$	$\beta^2_{1000} = 0.58 \times 10^{-5}$

CONTOUR GRADIENT TERMS

	0 hour	1 hour	2 hour	6 hour	12 hour	
Azimuth	3.	340.	350.	360.	40.	(deg from North)
Magnitude	5.54	16.28	16.28	16.28	16.28	(ft/100 km)

CASE DPG 3 COMPARISON DATA FROM DUGWAY (1 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-4.86	-1.77		
1000	3.11	2.70	20.00	3.73
900	1.67	3.76	21.00	3.88
800	1.67	3.76	21.80	4.09
700	1.74	3.73	22.30	4.23
600	1.96	4.20	23.00	4.34
500	1.93	4.77	23.50	4.49
400	2.39	5.13	22.30	4.79
300	0.89	5.07	22.20	5.45
200	-0.72	4.05	22.50	5.73
100	-1.54	2.67	19.50	6.27
32	-2.04	3.67	23.60	6.31
8	-0.47	1.63	22.00	6.51
2	-0.22	0.67	20.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	0.90
-0.125	25.06
-0.250	26.11
-0.500	25.00
-1.000	21.44
-2.000	21.33

WIND SPEED (M/SEC)

8	1.70
2	0.70

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	1.50	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 3 COMPARISON DATA FROM DUGWAY (2 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-5.09	-0.90		
1000	2.30	3.41	17.60	5.38
900	2.18	3.49	18.60	5.21
800	2.25	4.05	19.60	5.21
700	1.80	3.70	20.00	5.31
600	1.74	3.73	20.80	5.52
500	1.74	3.73	21.30	5.77
400	1.67	3.76	21.00	5.96
300	0.69	3.54	20.30	6.11
200	-0.43	3.06	20.20	6.19
100	-1.09	2.33	20.10	6.67
32	-0.75	2.07	24.70	6.55
8	-1.13	1.89	24.50	6.76
2	-1.07	1.32	23.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	14.90
-0.125	23.28
-0.250	24.44
-0.500	23.61
-1.000	20.06
-2.000	19.89

WIND SPEED (M/SEC)

8	2.20
2	1.70

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(O)=	6.50	Q(E,O)=	XXXX
R(N)=	XXXX	Q(S,O)=	XXXX
Q(C,O)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE CPG 3 COMPARISON DATA FROM DUGWAY (6 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-5.17	0.0		
1000	6.02	7.70	20.50	8.33
900	6.15	7.60	21.50	8.75
800	6.15	7.60	22.60	9.07
700	5.95	7.09	23.70	9.46
600	6.20	6.88	24.90	9.87
500	6.20	6.88	25.80	9.69
400	5.06	5.82	26.90	10.66
300	4.05	4.66	27.80	10.85
200	2.98	3.55	29.20	10.04
100	1.65	1.97	30.70	9.13
32	-0.46	-2.15	34.60	7.06
8	-0.57	-2.13	34.00	6.80
2	-0.55	-1.61	32.20	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)	
-0.0	51.20
-0.125	19.56
-0.250	20.22
-0.500	19.94
-1.000	16.67
-2.000	16.56

WIND SPEED (M/SEC)	
8	2.20
2	1.70

SURFACE SHEAR STRESS
(DYNES/CM SQ.)X10
TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(O)= 22.50 Q(E,O)= XXXX
R(N)= XXXX Q(S,O)= XXXX
C(C,O)= XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE EPG 3 COMPARISON DATA FROM EDGWAY (12 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-3.96	3.32		
1000	-2.04	0.29	23.[illegible]0	8.64
900	-1.54	-0.14	24.30	8.85
800	-1.54	0.0	25.30	9.02
700	-0.89	0.51	26.50	8.91
600	-0.66	0.79	27.70	8.85
500	-0.66	0.79	28.90	8.69
400	-0.35	0.97	30.00	8.49
300	0.0	1.03	31.00	8.43
200	0.0	0.51	32.00	8.33
100	0.0	0.51	33.20	8.28
32	-3.40	-2.47	37.90	6.19
8	-3.26	-2.64	37.30	5.77
2	-2.60	-2.34	36.40	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	48.10
-0.125	22.39
-0.250	20.44
-0.500	19.28
-1.000	16.39
-2.000	16.28

WIND SPEED (M/SEC)

8	4.20
2	3.50

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	6.50	Q(E,0)=	XXXX
R(N)=	XXXX	G(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KCM SC/SEC)	3214	3029	3504	3304
TAPE NO.	220.0	221.0	222.0	225.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.74	2.21	-1.74	2.22	-1.74	2.21	-1.74	2.22
1000	-5.79	-3.75	-4.47	-2.43	-5.95	-3.91	-5.59	-3.55
900	-5.36	-3.82	-4.88	-3.34	-5.52	-3.98	-5.18	-3.64
800	-5.15	-3.61	-4.82	-3.28	-5.30	-3.76	-4.99	-3.45
700	-5.02	-4.13	-4.74	-3.85	-5.15	-4.26	-4.85	-3.96
600	-4.89	-4.23	-4.64	-3.98	-5.02	-4.36	-4.73	-4.07
500	-4.75	-4.10	-4.54	-3.88	-4.88	-4.22	-4.61	-3.95
400	-4.63	-4.28	-4.42	-4.07	-4.72	-4.37	-4.48	-4.13
300	-4.47	-4.47	-4.28	-4.28	-4.56	-4.56	-4.34	-4.34
200	-4.28	-4.28	-4.10	-4.10	-4.34	-4.34	-4.15	-4.15
100	-3.97	-3.97	-3.80	-3.80	-4.01	-4.01	-3.84	-3.84
32	-3.46	-0.06	-3.32	0.08	-3.48	-0.09	-3.35	0.05
8	-2.82	0.43	-2.71	0.55	-2.83	0.43	-2.73	0.52

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.11	-3.20	0.11	-3.21	0.11	-3.21	0.11	-3.20
1000	-1.16*	-1.45	-1.64*	-1.93	0.05	-0.24	-1.23*	-1.52
900	-0.97	-0.83	-1.10	-0.96	0.04*	0.18	-1.03	-0.89
800	-0.86	-0.86	-0.93	-0.93	0.03	0.03	-0.93	-0.93
700	-0.78*	-1.29	-0.82*	-1.33	0.03	-0.47	-0.85*	-1.36
600	-0.74*	-1.53	-0.76*	-1.55	0.02	-0.77	-0.80*	-1.59
500	-0.69*	-1.48	-0.71*	-1.50	0.00	-0.78	-0.75*	-1.54
400	-0.65*	-1.62	-0.66*	-1.63	-0.00*	-0.97	-0.71*	-1.68
300	-0.61*	-1.64	-0.63*	-1.66	-0.02*	-1.05	-0.68*	-1.71
200	-0.59*	-1.10	-0.59*	-1.10	-0.03*	-0.54	-0.64*	-1.15
100	-0.55*	-1.06	-0.55*	-1.06	-0.05*	-0.56	-0.60*	-1.11
32	-0.49	1.97	-0.51	1.96	-0.07	2.39	-0.54	1.92
8	-0.41	2.22	-0.42	2.22	-0.07	2.50	-0.45	2.18

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	220.0	221.0	222.0	225.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.26	0.76	24.27	0.77	23.83	0.33	24.67	1.17
900	24.67	0.37	24.67	0.37	24.28	-0.02	25.09	0.79
800	24.86	-0.44	24.86	-0.44	24.50	-0.80	25.29	-0.01
700	25.02	-1.48	25.00	-1.50	24.66	-1.84	25.45	-1.05
600	25.12	-2.58	25.11	-2.59	24.78	-2.92	25.56	-2.14
500	25.22	-3.68	25.21	-3.69	24.90	-4.00	25.66	-3.24
400	25.28	-4.72	25.28	-4.72	24.97	-5.03	25.73	-4.27
300	25.36	-5.64	25.36	-5.64	25.07	-5.93	25.82	-5.18
200	25.40	-6.60	25.41	-6.59	25.11	-6.89	25.87	-6.13
100	25.46	-7.74	25.46	-7.74	25.17	-8.03	25.92	-7.28
32	25.41	-12.49	25.41	-12.49	25.15	-12.75	25.89	-12.01
8	25.22	-12.08	25.25	-12.05	25.00	-12.30	25.73	-11.57
2	24.75	-11.65	24.80	-11.60	24.60	-11.80	25.32	-11.08
0	24.24	XXXX	24.31	XXXX	24.15	XXXX	24.86	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	9.37	0.73	9.41	0.77	10.47	1.83	9.82	1.18
900	10.16	1.31	10.21	1.36	11.14	2.29	10.61	1.76
800	10.65	1.63	10.72	1.70	11.59	2.57	11.11	2.09
700	11.11	2.20	11.16	2.25	12.00	3.09	11.57	2.65
600	11.50	2.65	11.55	2.70	12.38	3.53	11.96	3.11
500	11.92	3.23	11.97	3.28	12.76	4.07	12.39	3.70
400	12.32	3.83	12.37	3.88	13.15	4.66	12.81	4.32
300	12.79	4.36	12.85	4.42	13.61	5.18	13.29	4.86
200	13.32	4.99	13.39	5.06	14.12	5.79	13.83	5.50
100	14.11	5.83	14.17	5.89	14.86	6.58	14.64	6.36
32	15.21	9.02	15.29	9.10	15.88	9.69	15.77	9.58
8	16.53	10.76	16.64	10.87	17.08	11.31	17.13	11.36
2	19.55	19.55	19.75	19.75	19.79	19.79	20.20	20.20
0	22.84	XXXX	23.14	XXXX	22.78	XXXX	23.58	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	220.0	221.0	222.0	225.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	25.62	-22.48	25.62	-22.48	25.56	-22.54	26.99	-21.11
-0.125	24.69	2.30	24.69	2.30	24.67	2.28	26.55	4.16
-0.250	25.68	5.24	25.69	5.25	25.69	5.25	26.59	6.15
-0.500	25.90	6.62	25.91	6.63	25.90	6.62	25.98	6.70
-1.000	22.79	6.40	22.79	6.40	22.80	6.41	22.89	6.50
-2.000	22.55	6.27	22.55	6.27	22.55	6.27	26.83	10.55

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.87	-1.33	2.75	-1.45	2.85	-1.35	2.79	-1.41
2	1.50	-2.00	1.43	-2.07	1.50	-2.00	1.46	-2.04

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	6.71	0.21	6.66	0.16	6.66	0.16	6.70	0.20
R(N)	2.31	XXXX	2.28	XXXX	2.28	XXXX	2.28	XXXX
G(C,0)	-0.21	XXXX	-0.19	XXXX	-0.20	XXXX	-0.19	XXXX
G(E,0)	2.95	XXXX	2.86	XXXX	2.90	XXXX	3.11	XXXX
G(S,0)	-0.39	XXXX	-0.37	XXXX	-0.40	XXXX	-0.60	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	1.94	XXXX	1.76	XXXX	2.10	XXXX	1.92	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	42.50	XXXX	42.40	XXXX	41.50	XXXX	46.30	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	18284	18454	18929	744
TAPE NO.	239.0	240.0	241.0	255.0
INTERVAL	6HR	6HR	6HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.73	3.43	-1.74	3.43	-1.74	3.43	-5.07	0.01
1000	-0.39*	-6.41	-0.99*	-7.01	-0.98*	-7.00	3.64	1.34
900	-0.42*	-6.57	-0.66*	-6.81	-0.92*	-7.07	3.59	1.41
800	-0.45*	-6.60	-0.60*	-6.75	-0.89*	-7.04	3.55	1.30
700	-0.48*	-6.43	-0.58*	-6.53	-0.88*	-6.83	3.43	1.64
600	-0.50*	-6.70	-0.58*	-6.78	-0.88*	-7.07	3.42	1.68
500	-0.51*	-6.71	-0.57*	-6.77	-0.85*	-7.05	3.35	1.61
400	-0.52*	-5.98	-0.57*	-5.63	-0.84*	-5.90	3.28	1.62
300	-0.52*	-4.57	-0.56*	-4.61	-0.82*	-4.87	3.13	2.44
200	-0.52*	-3.50	-0.55*	-3.53	-0.79*	-3.77	2.60*	3.03
100	-0.49*	-2.14	-0.52*	-2.17	-0.73*	-2.38	1.19*	2.28
32	-0.44	0.01	-0.46	0.0	-0.64	-0.19	-1.16	-0.41
8	-0.36	0.21	-0.38	0.19	-0.51	0.06	-1.65	-0.55

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.12	0.12	0.11	0.11	0.11	0.11	0.90*	1.80
1000	-6.36*	-14.06	-5.39*	-13.09	-6.26*	-13.96	-1.99*	-5.40
900	-5.77*	-13.37	-5.30*	-12.90	-5.70*	-13.30	-1.89*	-5.33
800	-5.44*	-13.04	-5.14*	-12.74	-5.39*	-12.99	-1.87*	-5.92
700	-5.19*	-12.28	-4.97*	-12.06	-5.16*	-12.25	-1.78*	-5.48
600	-5.00*	-11.88	-4.82*	-11.70	-4.96*	-11.84	-1.77*	-5.50
500	-4.80*	-11.68	-4.66*	-11.54	-4.78*	-11.66	-1.76*	-5.49
400	-4.61*	-10.43	-4.51*	-10.33	-4.60*	-10.42	-1.67*	-5.43
300	-4.41*	-9.07	-4.32*	-8.98	-4.40*	-9.06	-1.49*	-5.03
200	-4.18*	-7.73	-4.09*	-7.64	-4.16*	-7.71	-0.87*	-3.93
100	-3.82*	-5.79	-3.75*	-5.72	-3.81*	-5.78	-0.46*	-2.79
32	-3.31	-1.16	-3.25	-1.10	-3.30	-1.15	0.78	-1.28
8	-2.68	-0.55	-2.64	-0.51	-2.68	-0.55	1.76	-0.13

CASE LPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	239.0		240.0		241.0		255.0	
INTERVAL	6HR		6HR		6HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.18	1.68	22.12	1.62	21.68	1.18	20.22	2.62
900	22.58	1.08	22.54	1.04	22.12	0.62	21.04	2.44
800	22.77	0.17	22.74	0.14	22.35	-0.25	21.77	2.17
700	22.93	-0.77	22.92	-0.78	22.53	-1.17	22.47	2.47
600	23.06	-1.84	23.04	-1.86	22.69	-2.21	23.02	2.22
500	23.20	-2.60	23.19	-2.61	22.84	-2.96	23.13	1.83
400	23.32	-3.58	23.31	-3.59	22.97	-3.93	23.15	2.15
300	23.48	-4.32	23.47	-4.33	23.15	-4.65	23.17	2.87
200	23.67	-5.53	23.66	-5.54	23.35	-5.85	23.12	2.92
100	23.98	-6.72	23.96	-6.74	23.67	-7.03	22.57	2.47
32	24.44	-10.16	24.44	-10.16	24.17	-10.43	19.79	-4.91
8	25.02	-8.98	25.00	-9.00	24.76	-9.24	17.63	-6.87
2	26.32	-5.88	26.30	-5.90	26.12	-6.08	16.82	-7.08
0	27.51	XXXX	27.49	XXXX	27.37	XXXX	16.00	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.76	-1.57	6.89	-1.44	7.59	-0.74	8.57	1.19
900	7.34	-1.41	7.42	-1.33	8.09	-0.66	6.75	1.54
800	7.70	-1.37	7.78	-1.29	8.41	-0.66	6.96	1.75
700	8.04	-1.42	8.11	-1.35	8.74	-0.72	7.17	1.86
600	8.32	-1.55	8.38	-1.49	9.01	-0.86	7.43	1.91
500	8.65	-1.04	8.69	-1.00	9.31	-0.38	7.61	1.84
400	8.93	-1.73	8.98	-1.68	9.56	-1.08	7.75	1.79
300	9.29	-1.56	9.33	-1.52	9.91	-0.94	7.91	1.80
200	9.66	-0.38	9.71	-0.33	10.28	0.24	7.97	1.78
100	10.21	1.08	10.24	1.11	10.79	1.66	7.87	1.20
32	10.91	3.85	10.94	3.88	11.46	4.40	7.13	0.58
8	11.71	4.91	11.72	4.92	12.21	5.41	7.83	1.07
2	13.42	13.42	13.41	13.41	13.81	13.81	11.94	11.94
0	14.99	XXXX	14.97	XXXX	15.29	XXXX	16.14	XXXX

CASE GPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	239.0		240.0		241.0		255.0	
INTERVAL	6HR		6HR		6HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.94	-29.26	21.94	-29.26	21.90	-29.30	10.00	-4.90
-0.125	23.10	3.54	23.10	3.54	23.09	3.53	24.01	0.73
-0.[illegible]0	26.38	6.16	26.38	6.16	26.37	6.15	27.28	2.84
-0.500	26.13	6.19	26.15	6.21	26.14	6.20	26.26	2.65
-1.000	22.74	6.07	22.73	6.06	22.73	6.06	22.69	2.63
-2.000	22.56	6.00	22.56	6.00	22.56	6.00	22.56	2.67

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.72	0.52	2.68	0.48	2.74	0.54	2.41	0.21
2	1.30	-0.40	1.28	-0.42	1.31	-0.39	1.22	-0.48

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	22.66	0.16	22.66	0.16	22.65	0.15	6.48	-0.02
R(N)	13.68	XXXX	13.68	XXXX	13.67	XXXX	2.51	XXXX
Q(C,0)	3.30	XXXX	3.32	XXXX	3.56	XXXX	-0.07	XXXX
Q(E,0)	8.78	XXXX	8.78	XXXX	8.54	XXXX	0.86	XXXX
Q(S,0)	1.60	XXXX	1.59	XXXX	1.57	XXXX	1.74	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	10.62	XXXX	10.54	XXXX	11.06	XXXX	0.34	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	14.30	XXXX	14.30	XXXX	14.00	XXXX	0.40	XXXX

CASE GPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	744	739	854	854
TAPE NO.	256.0	257.0	258.0	259.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-5.07	0.01	-5.07	0.02	-1.74	3.35	-1.74	3.35
1000	1.69	-0.61	3.56	1.26	4.13	1.83	2.63	0.34
900	3.57	1.40	3.52	1.34	4.08	1.90	4.06	1.89
800	3.55	1.30	3.48	1.23	4.04	1.79	4.04	1.79
700	3.43	1.64	3.38	1.58	3.93	2.13	3.93	2.13
600	3.42	1.68	3.37	1.63	3.91	2.18	3.90	2.16
500	3.35	1.61	3.31	1.57	3.85	2.11	3.85	2.11
400	3.28	1.62	3.25	1.59	3.78	2.12	3.78	2.11
300	3.13	2.44	3.11	2.42	3.61	2.92	3.61	2.92
200	2.60*	3.03	2.58*	3.01	3.07*	3.50	3.07*	3.50
100	1.20*	2.29	1.18*	2.27	1.68*	2.77	1.68*	2.77
32	-1.17	-0.42	-1.17	-0.42	-0.53	0.22	-0.53	0.22
8	-1.65	-0.53	-1.64	-0.51	-1.03	0.09	-1.03	0.09

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.90*	1.80	0.91*	1.81	0.11*	1.01	0.11*	1.01
1000	-1.40*	-4.81	-2.06*	-5.47	-0.97*	-4.38	-0.47*	-3.88
900	-1.92*	-5.41	-1.95*	-5.44	-0.87*	-4.36	-0.88*	-4.37
800	-1.89*	-5.94	-1.92*	-5.97	-0.84*	-4.89	-0.86*	-4.91
700	-1.78*	-5.48	-1.82*	-5.52	-0.75*	-4.45	-0.75*	-4.45
600	-1.76*	-5.49	-1.81*	-5.54	-0.74*	-4.47	-0.74*	-4.47
500	-1.76*	-5.49	-1.80*	-5.53	-0.72*	-4.45	-0.72*	-4.45
400	-1.67*	-5.43	-1.71*	-5.47	-0.64*	-4.40	-0.64*	-4.40
300	-1.49*	-5.03	-1.52*	-5.06	-0.43*	-3.97	-0.43*	-3.97
200	-0.87*	-3.93	-0.91*	-3.97	0.13	-2.93	0.13	-2.93
100	-0.46*	-2.79	-0.48*	-2.81	0.58	-1.74	0.58	-1.74
32	0.78	-1.29	0.77	-1.30	1.76	-0.31	1.76	-0.31
8	1.76	-0.13	1.76	-0.13	2.45	0.57	2.45	0.57

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	256.0		257.0		258.0		259.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.19	2.59	20.04	2.44	20.22	2.62	20.19	2.59
900	21.02	2.42	20.87	2.27	21.05	2.45	21.04	2.44
800	21.76	2.16	21.60	2.00	21.77	2.17	21.77	2.17
700	22.49	2.49	22.31	2.31	22.48	2.48	22.47	2.47
600	23.01	2.21	22.85	2.05	22.99	2.19	23.01	2.21
500	23.13	1.83	22.99	1.69	23.13	1.83	23.13	1.83
400	23.15	2.15	23.02	2.02	23.14	2.14	23.15	2.15
300	23.17	2.87	23.06	2.76	23.17	2.87	23.17	2.87
200	23.13	2.93	23.02	2.82	23.09	2.89	23.09	2.89
100	22.57	2.47	22.51	2.41	22.47	2.37	22.47	2.37
32	19.78	-4.92	19.76	-4.94	19.85	-4.85	19.85	-4.85
8	17.63	-6.87	17.62	-6.88	17.86	-6.64	17.89	-6.61
2	16.84	-7.06	16.82	-7.08	16.91	-6.99	16.92	-6.98
0	16.03	XXXX	16.01	XXXX	15.93	XXXX	15.92	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.60	1.22	6.71	1.33	6.58	1.20	6.61	1.23
900	6.78	1.57	6.91	1.70	6.77	1.56	6.81	1.60
800	6.98	1.77	7.11	1.90	6.98	1.77	6.99	1.78
700	7.17	1.86	7.31	2.00	7.18	1.87	7.19	1.88
600	7.42	1.90	7.55	2.03	7.43	1.91	7.44	1.92
500	7.61	1.84	7.73	1.96	7.62	1.85	7.62	1.85
400	7.74	1.78	7.88	1.92	7.76	1.80	7.76	1.80
300	7.91	1.80	8.03	1.92	7.91	1.80	7.91	1.80
200	7.97	1.78	8.08	1.89	7.96	1.77	7.96	1.77
100	7.86	1.19	7.94	1.27	7.85	1.18	7.85	1.18
32	7.11	0.56	7.15	0.60	7.26	0.71	7.25	0.70
8	7.83	1.07	7.84	1.08	8.02	1.26	8.02	1.26
2	11.93	11.93	11.93	11.93	11.86	11.86	11.84	11.84
0	16.11	XXXX	16.12	XXXX	15.78	XXXX	15.75	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	256.0		257.0		258.0		259.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	10.00	-4.90	9.98	-4.92	9.97	-4.93	9.97	-4.93
-0.125	24.01	0.73	23.99	0.71	24.01	0.73	24.01	0.73
-0.250	27.28	2.84	27.28	2.84	27.28	2.84	27.28	2.84
-0.500	26.26	2.65	26.25	2.64	26.26	2.65	26.26	2.65
-1.000	22.68	2.62	22.68	2.62	22.68	2.62	22.69	2.63
-2.000	22.56	2.67	22.56	2.67	22.56	2.67	22.56	2.67

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.41	0.21	2.41	0.21	2.67	0.47	2.67	0.47
2	1.22	-0.48	1.22	-0.48	1.35	-0.35	1.35	-0.35

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	6.48	-0.02	6.47	-0.03	6.47	-0.03	6.47	-0.03
R(N)	2.51	XXXX	2.51	XXXX	2.54	XXXX	2.54	XXXX
Q(C,0)	-0.07	XXXX	-0.07	XXXX	-0.11	XXXX	-0.11	XXXX
Q(E,0)	0.86	XXXX	0.85	XXXX	0.95	XXXX	0.95	XXXX
Q(S,0)	1.73	XXXX	1.73	XXXX	1.71	XXXX	1.71	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.34	XXXX	0.34	XXXX	0.44	XXXX	0.45	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.40	XXXX	0.40	XXXX	0.40	XXXX	0.40	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	864	2789	2789	2789
TAPE NO.	260.0	264.0	265.0	266.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.74	3.35	-5.07	0.01	-5.08	0.01	-5.07	0.01
1000	4.07	1.77	3.63	1.34	1.75	-0.55	3.55	1.26
900	4.02	1.85	3.58	1.40	3.36	1.18	3.50	1.32
800	3.99	1.74	3.50	1.25	3.41	1.16	3.45	1.20
700	3.89	2.09	3.39	1.59	3.32	1.53	3.34	1.55
600	3.88	2.14	3.26	1.52	3.21	1.47	3.21	1.47
500	3.82	2.08	3.08	1.34	3.04	1.30	3.04	1.30
400	3.76	2.10	2.82	1.15	2.78	1.12	2.78	1.12
300	3.59	2.90	2.51	1.82	2.48	1.79	2.48	1.79
200	3.06*	3.49	2.13*	2.56	2.10*	2.53	2.10*	2.53
100	1.68*	2.77	1.65*	2.74	1.63*	2.72	1.63*	2.72
32	-0.53	0.22	1.18*	1.93	1.17*	1.92	1.17*	1.92
8	-1.04	0.09	0.89*	2.02	0.88*	2.01	0.88*	2.00

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.11*	1.01	0.90*	1.80	0.91*	1.81	0.91*	1.81
1000	-1.03*	-4.44	-1.99*	-5.40	-1.47*	-4.88	-2.04*	-5.45
900	-0.92*	-4.41	-1.88*	-5.37	-1.88*	-5.37	-1.94*	-5.43
800	-0.89*	-4.94	-1.82*	-5.87	-1.87*	-5.92	-1.87*	-5.92
700	-0.80*	-4.50	-1.74*	-5.44	-1.78*	-5.48	-1.78*	-5.48
600	-0.78*	-4.51	-1.64*	-5.37	-1.69*	-5.42	-1.69*	-5.42
500	-0.77*	-4.50	-1.52*	-5.25	-1.56*	-5.29	-1.56*	-5.29
400	-0.67*	-4.43	-1.36*	-5.12	-1.40*	-5.16	-1.40*	-5.16
300	-0.47*	-4.01	-1.19*	-4.73	-1.22*	-4.76	-1.22*	-4.76
200	0.10	-2.95	-1.00*	-4.06	-1.03*	-4.09	-1.03*	-4.09
100	0.57	-1.76	-0.79*	-3.12	-0.82*	-3.15	-0.82*	-3.15
32	1.75	-0.32	-0.66*	-2.73	-0.68*	-2.75	-0.68*	-2.75
8	2.45	0.57	-0.56*	-2.45	-0.57*	-2.46	-0.57*	-2.46

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	260.0		264.0		265.0		266.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.05	2.45	20.49	2.89	20.31	2.71	20.31	2.71
900	20.88	2.28	21.48	2.88	21.32	2.72	21.32	2.72
800	21.62	2.02	22.06	2.46	21.90	2.30	21.90	2.30
700	22.32	2.32	22.41	2.41	22.25	2.25	22.25	2.25
600	22.84	2.04	22.57	1.77	22.43	1.63	22.42	1.62
500	22.98	1.68	22.62	1.32	22.48	1.18	22.48	1.18
400	23.02	2.02	22.54	1.54	22.41	1.41	22.41	1.41
300	23.05	2.75	22.36	2.06	22.26	1.96	22.26	1.96
200	22.98	2.78	22.04	1.84	21.94	1.74	21.94	1.74
100	22.41	2.31	21.55	1.45	21.48	1.38	21.47	1.37
32	19.82	-4.88	20.88	-3.82	20.83	-3.87	20.83	-3.87
8	17.86	-6.64	20.46	-4.04	20.43	-4.07	20.42	-4.08
2	16.91	-6.99	20.04	-3.86	20.02	-3.88	20.01	-3.89
0	15.94	XXXX	19.60	XXXX	19.60	XXXX	19.59	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.72	1.34	6.61	1.23	6.77	1.39	6.76	1.38
900	6.91	1.70	6.86	1.65	7.02	1.81	7.02	1.81
800	7.11	1.90	7.06	1.85	7.19	1.98	7.19	1.98
700	7.31	2.00	7.24	1.93	7.38	2.07	7.37	2.06
600	7.55	2.03	7.38	1.86	7.51	1.99	7.51	1.99
500	7.74	1.97	7.55	1.78	7.67	1.90	7.66	1.89
400	7.89	1.93	7.69	1.73	7.80	1.84	7.81	1.85
300	8.02	1.91	7.87	1.76	7.99	1.88	7.99	1.88
200	8.08	1.89	8.09	1.90	8.19	2.00	8.20	2.01
100	7.91	1.24	8.55	1.88	8.63	1.96	8.63	1.96
32	7.28	0.73	9.37	2.82	9.43	2.88	9.43	2.88
8	8.03	1.27	10.62	3.86	10.69	3.93	10.67	3.91
2	11.87	11.87	13.60	13.60	13.64	13.64	13.64	13.64
0	15.79	XXXX	16.65	XXXX	16.67	XXXX	16.68	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	260.0		264.0		265.0		266.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	9.98	-4.92	19.55	4.65	19.56	4.66	19.55	4.65
-0.125	24.01	0.73	25.71	2.43	25.71	2.43	25.71	2.43
-0.250	27.28	2.84	27.38	2.94	27.38	2.94	27.38	2.94
-0.500	26.26	2.65	26.26	2.65	26.26	2.65	26.26	2.65
-1.000	22.69	2.63	22.69	2.63	22.69	2.63	22.70	2.64
-2.000	22.56	2.67	26.84	6.95	26.84	6.95	26.84	6.95

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.66	0.46	1.08	-1.12	1.08	-1.12	1.08	-1.12
2	1.35	-0.35	0.55	-1.15	0.55	-1.15	0.55	-1.15

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	6.48	-0.02	6.47	-0.03	6.45	-0.05	6.48	-0.02
R(N)	2.53	XXXX	2.30	XXXX	2.30	XXXX	2.30	XXXX
Q(C,0)	-0.11	XXXX	-0.16	XXXX	-0.16	XXXX	-0.16	XXXX
Q(E,0)	0.95	XXXX	2.46	XXXX	2.46	XXXX	2.45	XXXX
Q(S,0)	1.71	XXXX	0.02	XXXX	0.01	XXXX	0.02	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.44	XXXX	0.62	XXXX	0.62	XXXX	0.64	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.40	XXXX	2.10	XXXX	2.10	XXXX	2.10	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KGM SQ/SEC)	2764	2784	2789	2794
TAPE NO.	267.0	268.0	269.0	270.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-5.07	0.01	-5.07	0.01	-5.07	0.01	-1.74	3.34
1000	3.55	1.26	1.83	-0.47	3.63	1.34	4.06	1.77
900	3.51	1.33	3.45	1.27	3.57	1.40	4.01	1.84
800	3.45	1.20	3.48	1.23	3.51	1.26	3.95	1.70
700	3.33	1.53	3.39	1.59	3.39	1.60	3.84	2.05
600	3.21	1.47	3.26	1.52	3.26	1.52	3.72	1.98
500	3.04	1.30	3.08	1.34	3.08	1.34	3.54	1.80
400	2.78	1.12	2.82	1.15	2.82	1.15	3.29	1.62
300	2.48	1.79	2.51	1.82	2.51	1.82	2.99	2.30
200	2.10*	2.53	2.12*	2.55	2.13*	2.56	2.61*	3.04
100	1.63*	2.72	1.65*	2.74	1.65*	2.74	2.13*	3.22
32	1.17*	1.92	1.18*	1.93	1.18*	1.93	1.62*	2.37
8	0.88*	2.01	0.89*	2.02	0.89*	2.02	1.26*	2.39

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.90*	1.80	0.90*	1.80	0.91*	1.81	0.11*	1.01
1000	-2.04*	-5.45	-1.45*	-4.86	-1.99*	-5.40	-1.02*	-4.43
900	-1.94*	-5.43	-1.85*	-5.34	-1.88*	-5.37	-0.91*	-4.40
800	-1.87*	-5.92	-1.83*	-5.88	-1.82*	-5.87	-0.84*	-4.89
700	-1.78*	-5.48	-1.74*	-5.44	-1.74*	-5.44	-0.76*	-4.46
600	-1.69*	-5.42	-1.65*	-5.38	-1.65*	-5.36	-0.66*	-4.39
500	-1.57*	-5.30	-1.52*	-5.25	-1.52*	-5.25	-0.54*	-4.27
400	-1.41*	-5.17	-1.36*	-5.12	-1.36*	-5.12	-0.38*	-4.13
300	-1.22*	-4.76	-1.19*	-4.73	-1.19*	-4.73	-0.20*	-3.74
200	-1.03*	-4.09	-0.99*	-4.05	-0.99*	-4.05	-0.01*	-3.07
100	-0.82*	-3.15	-0.80*	-3.13	-0.79*	-3.12	0.18	-2.15
32	-0.68*	-2.75	-0.66*	-2.73	-0.66*	-2.73	0.25	-1.81
8	-0.57*	-2.46	-0.56*	-2.45	-0.56*	-2.45	0.22	-1.66

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	267.0		268.0		269.0		270.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.30	2.70	20.46	2.86	20.48	2.88	20.31	2.71
900	21.31	2.71	21.47	2.87	21.48	2.88	21.32	2.72
800	21.90	2.30	22.05	2.45	22.06	2.46	21.91	2.31
700	22.24	2.24	22.41	2.41	22.39	2.39	22.24	2.24
600	22.40	1.60	22.55	1.75	22.54	1.74	22.41	1.61
500	22.43	1.13	22.56	1.26	22.56	1.26	22.43	1.13
400	22.32	1.32	22.43	1.43	22.43	1.43	22.31	1.31
300	22.07	1.77	22.17	1.87	22.18	1.88	22.07	1.77
200	21.62	1.42	21.70	1.50	21.71	1.51	21.61	1.41
100	20.90	0.80	20.97	0.87	20.97	0.87	20.91	0.81
32	19.81	-4.89	19.86	-4.84	19.85	-4.85	19.81	-4.89
8	18.91	-5.59	18.95	-5.55	18.94	-5.56	18.92	-5.58
2	17.46	-6.44	17.49	-6.41	17.48	-6.42	17.47	-6.43
0	16.01	XXXX	16.02	XXXX	16.01	XXXX	16.01	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.75	1.37	6.65	1.27	6.62	1.24	6.76	1.38
900	7.00	1.79	6.90	1.69	6.87	1.66	7.02	1.81
800	7.21	2.00	7.07	1.86	7.05	1.84	7.19	1.98
700	7.37	2.06	7.24	1.93	7.23	1.92	7.37	2.06
600	7.49	1.97	7.36	1.84	7.36	1.84	7.49	1.97
500	7.62	1.85	7.51	1.74	7.52	1.75	7.64	1.87
400	7.75	1.79	7.62	1.66	7.62	1.66	7.74	1.78
300	7.88	1.77	7.76	1.65	7.76	1.65	7.87	1.76
200	8.02	1.83	7.92	1.73	7.91	1.72	8.01	1.82
100	8.29	1.62	8.21	1.54	8.21	1.54	8.28	1.61
32	8.78	2.23	8.73	2.18	8.73	2.18	8.78	2.23
8	9.63	2.87	9.59	2.83	9.58	2.82	9.63	2.87
2	11.75	11.75	11.72	11.72	11.71	11.71	11.76	11.76
0	13.89	XXXX	13.86	XXXX	13.86	XXXX	13.90	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	267.0		268.0		269.0		270.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	10.87	-4.03	10.86	-4.04	10.86	-4.04	10.86	-4.04
-0.125	24.12	0.84	24.12	0.84	24.11	0.83	24.12	0.84
-0.250	27.28	2.84	27.29	2.85	27.28	2.84	27.28	2.84
-0.500	26.26	2.65	26.26	2.65	26.27	2.66	26.26	2.65
-1.000	22.68	2.62	22.68	2.62	22.68	2.62	22.69	2.63
-2.000	22.56	2.67	22.55	2.66	22.56	2.67	22.56	2.67

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	1.08	-1.12	1.08	-1.12	1.08	-1.12	1.30	-0.90
2	0.54	-1.16	0.54	-1.16	0.54	-1.16	0.65	-1.05

SURFACE ENERGY TERMS (LY/SEC)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	6.47	-0.03	6.47	-0.03	6.47	-0.03	6.47	-0.03
R(N)	2.63	XXXX	2.63	XXXX	2.63	XXXX	2.63	XXXX
Q(C,0)	-0.57	XXXX	-0.58	XXXX	-0.58	XXXX	-0.58	XXXX
Q(E,0)	1.74	XXXX	1.75	XXXX	1.75	XXXX	1.74	XXXX
Q(S,0)	1.48	XXXX	1.48	XXXX	1.48	XXXX	1.48	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.64	XXXX	0.62	XXXX	0.62	XXXX	0.74	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.20	XXXX	1.30	XXXX	1.30	XXXX	1.30	XXXX

CASE LPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	2789	2789	194	179
TAPE NO.	271.0	272.0	274.0	275.0
INTERVAL	2HR	2HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-1.74	3.35	-1.74	3.35	-4.84	0.02	-4.84	0.02
1000	2.68	0.38	4.13	1.83	3.48	0.37	2.44	-0.67
900	3.90	1.73	4.07	1.89	3.45	1.79	3.45	1.79
800	3.93	1.68	4.00	1.75	3.43	1.77	3.43	1.77
700	3.84	2.04	3.89	2.09	3.36	1.62	3.36	1.62
600	3.72	1.98	3.76	2.02	3.37	1.41	3.37	1.41
500	3.54	1.80	3.58	1.84	3.33	1.40	3.33	1.40
400	3.29	1.62	3.32	1.65	3.29	0.90	3.29	0.90
300	2.99	2.30	3.01	2.32	3.22	2.33	3.22	2.33
200	2.61*	3.04	2.62*	3.05	2.51*	3.23	2.51*	3.23
100	2.12*	3.21	2.13*	3.22	1.11*	2.65	1.11*	2.65
32	1.62*	2.37	1.63*	2.38	-2.13	-0.09	-2.13	-0.09
8	1.26*	2.39	1.27*	2.40	-3.39	-2.92	-3.39	-2.92

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.11*	1.01	0.11*	1.01	1.77*	3.54	1.77*	3.54
1000	-0.54*	-3.95	-0.96*	-4.37	0.58	-2.11	0.74	-1.95
900	-0.86*	-4.35	-0.86*	-4.35	0.64	-3.11	0.64	-3.11
800	-0.84*	-4.89	-0.80*	-4.85	0.65	-3.10	0.64	-3.11
700	-0.70*	-4.46	-0.71*	-4.41	0.69	-3.03	0.69	-3.03
600	-0.66*	-4.39	-0.62*	-4.35	0.69	-3.51	0.69	-3.51
500	-0.54*	-4.27	-0.49*	-4.22	0.69	-4.07	0.69	-4.07
400	-0.38*	-4.14	-0.34*	-4.10	0.72	-4.40	0.72	-4.40
300	-0.20*	-3.74	-0.16*	-3.70	0.78	-4.28	0.78	-4.29
200	-0.01*	-3.07	0.02	-3.04	1.41	-2.63	1.41	-2.63
100	0.18	-2.15	0.20	-2.13	1.10	-1.56	1.10	-1.56
32	0.25	-1.81	0.26	-1.80	1.37	-2.29	1.37	-2.29
8	0.22	-1.66	0.23	-1.66	3.58	1.95	3.57	1.95

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	271.0		272.0		274.0		275.0	
INTERVAL	2HR		2HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.31	2.71	20.48	2.88	20.11	0.11	20.11	0.11
900	21.32	2.72	21.48	2.88	20.92	-0.08	20.92	-0.08
800	21.90	2.30	22.06	2.46	21.65	-0.15	21.64	-0.16
700	22.24	2.24	22.41	2.41	22.36	0.06	22.36	0.06
600	22.39	1.59	22.55	1.75	23.03	0.03	23.03	0.03
500	22.43	1.13	22.57	1.27	23.06	-0.44	23.07	-0.43
400	22.31	1.31	22.43	1.43	23.06	0.76	23.07	0.77
300	22.06	1.76	22.18	1.88	23.08	0.88	23.08	0.88
200	21.61	1.41	21.71	1.51	23.15	0.65	23.14	0.64
100	20.91	0.81	20.98	0.88	23.03	3.53	23.02	3.52
32	19.81	-4.89	19.86	-4.84	19.52	-4.08	19.52	-4.08
8	18.91	-5.59	18.94	-5.56	15.92	-6.08	15.93	-6.07
2	17.47	-6.43	17.48	-6.42	11.24	-9.66	11.25	-9.65
0	16.01	XXXX	16.01	XXXX	6.54	XXXX	6.54	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.76	1.38	6.63	1.25	6.62	2.89	6.63	2.90
900	7.02	1.81	6.88	1.67	6.82	2.94	6.82	2.94
800	7.19	1.98	7.07	1.86	7.03	2.94	7.03	2.94
700	7.37	2.06	7.25	1.94	7.21	2.98	7.21	2.98
600	7.49	1.97	7.37	1.85	7.53	3.19	7.53	3.19
500	7.64	1.87	7.53	1.76	7.68	3.19	7.67	3.18
400	7.74	1.78	7.63	1.67	7.83	3.04	7.82	3.03
300	7.90	1.79	7.78	1.67	7.99	2.54	7.99	2.54
200	8.01	1.82	7.92	1.73	8.07	2.34	8.08	2.35
100	8.29	1.62	8.21	1.54	8.13	1.86	8.13	1.86
32	8.78	2.23	8.74	2.19	6.54	0.23	6.53	0.22
8	9.63	2.87	9.59	2.83	6.69	0.18	6.69	0.18
2	11.75	11.75	11.72	11.72	8.13	8.13	8.13	8.13
0	13.88	XXXX	13.87	XXXX	9.57	XXXX	9.57	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	271.0		272.0		274.0		275.0	
INTERVAL	2HR		2HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	10.86	-4.04	10.87	-4.03	6.29	5.39	6.27	5.37
-0.125	24.11	0.83	24.12	0.84	25.16	0.10	25.15	0.09
-0.250	27.28	2.84	27.28	2.84	27.47	1.36	27.47	1.36
-0.500	26.26	2.65	26.26	2.65	26.28	1.28	26.28	1.28
-1.000	22.68	2.62	22.68	2.62	22.67	1.23	22.67	1.23
-2.000	22.56	2.67	22.56	2.67	22.56	1.23	22.56	1.23

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	1.30	-0.90	1.31	-0.89	4.95	3.25	4.94	3.24
2	0.65	-1.05	0.66	-1.04	2.48	1.78	2.48	1.78

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	6.47	-0.03	6.48	-0.02	1.66	0.16	1.65	0.15
R(N)	2.62	XXXX	2.63	XXXX	0.02	XXXX	0.03	XXXX
Q(C,0)	-0.57	XXXX	-0.58	XXXX	-0.11	XXXX	-0.10	XXXX
Q(E,0)	1.74	XXXX	1.75	XXXX	0.07	XXXX	0.07	XXXX
Q(S,0)	1.48	XXXX	1.48	XXXX	0.08	XXXX	0.08	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.76	XXXX	0.76	XXXX	0.16	XXXX	0.14	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.30	XXXX	1.20	XXXX	0.20	XXXX	0.10	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	194	224	244	244
TAPE NO.	276.0	277.0	278.0	279.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.84	0.02	-1.74	3.11	-1.74	3.12	-1.74	3.12
1000	3.46	0.35	3.81	0.70	3.00	-0.11	3.80	0.69
900	3.43	1.77	3.79	2.12	3.79	2.12	3.77	2.11
800	3.42	1.75	3.77	2.10	3.77	2.11	3.75	2.09
700	3.35	1.61	3.69	1.95	3.69	1.95	3.69	1.95
600	3.35	1.40	3.70	1.74	3.70	1.75	3.69	1.74
500	3.32	1.39	3.66	1.74	3.66	1.74	3.66	1.73
400	3.29	0.90	3.63	1.24	3.63	1.24	3.63	1.24
300	3.22	2.33	3.56	2.67	3.55	2.66	3.55	2.66
200	2.51*	3.23	2.84*	3.56	2.85*	3.57	2.84*	3.56
100	1.11*	2.65	1.44*	2.98	1.44*	2.98	1.44*	2.98
32	-2.13	-0.09	-1.76	0.28	-1.76	0.28	-1.76	0.28
8	-3.39	-2.92	-3.00	-2.53	-3.00	-2.53	-3.01	-2.54

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.78*	3.55	0.11*	1.88	0.11*	1.88	0.11*	1.88
1000	0.57	-2.12	1.08	-1.62	1.21	-1.49	1.06	-1.64
900	0.63	-3.13	1.13	-2.63	1.12	-2.63	1.11	-2.64
800	0.63	-3.12	1.14	-2.61	1.14	-2.62	1.12	-2.63
700	0.68	-3.05	1.18	-2.55	1.17	-2.56	1.16	-2.56
600	0.68	-3.51	1.18	-3.02	1.18	-3.02	1.17	-3.03
500	0.67	-4.10	1.17	-3.60	1.17	-3.60	1.16	-3.60
400	0.71	-4.41	1.21	-3.91	1.21	-3.91	1.21	-3.92
300	0.77	-4.30	1.28	-3.79	1.28	-3.79	1.27	-3.80
200	1.40	-2.64	1.89	-2.16	1.89	-2.16	1.88	-2.16
100	1.09	-1.57	1.59	-1.07	1.59	-1.08	1.59	-1.07
32	1.37	-2.29	1.88	-1.79	1.88	-1.78	1.88	-1.79
8	3.57	1.95	3.97	2.35	3.97	2.35	3.98	2.35

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	276.0		277.0		278.0		279.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.04	0.04	20.12	0.12	20.11	0.11	20.04	0.04
900	20.84	-0.16	20.92	-0.08	20.92	-0.08	20.85	-0.15
800	21.57	-0.23	21.65	-0.15	21.64	-0.16	21.58	-0.22
700	22.29	-0.01	22.36	0.06	22.36	0.06	22.29	-0.01
600	22.97	-0.03	23.03	0.03	23.03	0.03	22.96	-0.04
500	23.01	-0.49	23.06	-0.44	23.06	-0.44	23.00	-0.50
400	23.01	0.71	23.06	0.76	23.06	0.76	23.01	0.71
300	23.02	0.82	23.08	0.88	23.08	0.88	23.02	0.82
200	23.11	0.61	23.14	0.64	23.15	0.65	23.11	0.61
100	23.01	3.51	23.01	3.51	22.99	3.49	22.97	3.47
32	19.51	-4.09	19.53	-4.07	19.53	-4.07	19.52	-4.08
8	15.91	-6.09	15.94	-6.06	15.94	-6.06	15.95	-6.05
2	11.24	-9.66	11.27	-9.63	11.27	-9.63	11.28	-9.62
0	6.54	XXXX	6.58	XXXX	6.58	XXXX	6.58	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.66	2.93	6.63	2.90	6.64	2.91	6.67	2.94
900	6.85	2.97	6.82	2.94	6.83	2.95	6.86	2.98
800	7.07	2.98	7.03	2.94	7.03	2.94	7.06	2.97
700	7.25	3.02	7.21	2.98	7.22	2.99	7.24	3.01
600	7.57	3.23	7.54	3.20	7.54	3.20	7.57	3.23
500	7.70	3.21	7.64	3.15	7.68	3.19	7.70	3.21
400	7.86	3.07	7.83	3.04	7.83	3.04	7.86	3.07
300	8.02	2.57	7.99	2.54	7.99	2.54	8.02	2.57
200	8.11	2.38	8.08	2.35	8.08	2.35	8.11	2.38
100	8.14	1.87	8.12	1.85	8.11	1.84	8.13	1.86
32	6.54	0.23	6.57	0.26	6.57	0.26	6.57	0.26
8	6.69	0.18	6.71	0.20	6.72	0.21	6.71	0.20
2	8.12	8.12	8.13	8.13	8.13	8.13	8.13	8.13
0	9.56	XXXX	9.55	XXXX	9.55	XXXX	9.55	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	276.0		277.0		278.0		279.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	6.28	5.38	6.29	5.39	6.28	5.38	6.28	5.38
-0.125	25.16	0.10	25.16	0.10	25.17	0.11	25.16	0.10
-0.250	27.47	1.36	27.48	1.37	27.47	1.36	27.48	1.37
-0.500	26.29	1.29	26.29	1.29	26.28	1.28	26.29	1.29
-1.000	22.68	1.24	22.68	1.24	22.67	1.23	22.67	1.23
-2.000	22.56	1.23	22.56	1.23	22.55	1.22	22.56	1.23

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.95	3.25	4.99	3.29	4.99	3.29	5.00	3.30
2	2.48	1.78	2.50	1.80	2.50	1.80	2.51	1.81

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.67	0.17	1.66	0.16	1.67	0.17	1.66	0.16
R(N)	0.02	XXXX	0.02	XXXX	0.02	XXXX	0.02	XXXX
Q(C,0)	-0.11	XXXX	-0.14	XXXX	-0.14	XXXX	-0.14	XXXX
Q(E,0)	0.07	XXXX	0.09	XXXX	0.09	XXXX	0.09	XXXX
Q(S,0)	0.08	XXXX	0.09	XXXX	0.09	XXXX	0.09	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.16	XXXX	0.22	XXXX	0.22	XXXX	0.22	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.20	XXXX	0.20	XXXX	0.20	XXXX	0.20	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	2799	2794	2794	2799
TAPE NO.	283.0	284.0	285.0	286.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.84	0.02	-4.84	0.02	-4.84	0.02	-4.84	0.02
1000	3.48	0.37	2.46	-0.65	3.46	0.35	3.46	0.35
900	3.45	1.79	3.39	1.73	3.44	1.78	3.43	1.77
800	3.41	1.75	3.39	1.73	3.40	1.74	3.40	1.74
700	3.36	1.62	3.35	1.61	3.35	1.61	3.35	1.61
600	3.31	1.36	3.30	1.35	3.30	1.35	3.30	1.34
500	3.19	1.27	3.19	1.26	3.19	1.27	3.19	1.26
400	2.97	0.59	2.96	0.57	2.96	0.57	2.96	0.57
300	2.61	1.72	2.60	1.71	2.60	1.71	2.60	1.71
200	2.02*	2.74	2.02*	2.74	2.02*	2.74	2.02*	2.74
100	1.17*	2.71	1.16*	2.70	1.16*	2.70	1.16*	2.70
32	0.36*	2.40	0.35*	2.39	0.35*	2.39	0.36*	2.40
8	0.09*	0.56	0.09*	0.56	0.09*	0.56	0.09*	0.56

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.78*	3.55	1.77*	3.54	1.78*	3.55	1.77*	3.54
1000	0.59	-2.11	0.73	-1.97	0.57	-2.12	0.58	-2.12
900	0.64	-3.11	0.64	-3.11	0.63	-3.13	0.63	-3.13
800	0.66	-3.10	0.64	-3.11	0.64	-3.11	0.65	-3.11
700	0.69	-3.03	0.67	-3.05	0.67	-3.05	0.68	-3.05
600	0.72	-3.47	0.71	-3.49	0.70	-3.49	0.70	-3.49
500	0.76	-4.00	0.75	-4.01	0.75	-4.01	0.75	-4.01
400	0.84	-4.28	0.83	-4.29	0.83	-4.29	0.84	-4.29
300	0.96	-4.11	0.95	-4.11	0.95	-4.11	0.95	-4.11
200	1.07	-2.97	1.06	-2.98	1.06	-2.98	1.06	-2.98
100	1.17	-1.49	1.16	-1.50	1.17	-1.50	1.16	-1.50
32	1.12	-2.55	1.11	-2.55	1.11	-2.55	1.12	-2.55
8	0.92	-0.71	0.91	-0.71	0.91	-0.71	0.92	-0.71

CASE GPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	283.0		284.0		285.0		286.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.24	0.24	20.17	0.17	20.17	0.17	20.18	0.18
900	21.19	0.19	21.12	0.12	21.11	0.11	21.11	0.11
800	21.90	0.10	21.81	0.01	21.82	0.02	21.81	0.01
700	22.39	0.09	22.32	0.02	22.32	0.02	22.32	0.02
600	22.68	-0.32	22.61	-0.39	22.61	-0.39	22.61	-0.39
500	22.83	-0.67	22.77	-0.73	22.77	-0.73	10.08	-13.42
400	22.82	0.52	22.76	0.46	22.76	0.46	22.74	0.44
300	22.68	0.48	22.64	0.44	22.64	0.44	22.58	0.38
200	22.31	-0.19	22.27	-0.23	22.27	-0.23	22.14	-0.36
100	21.61	2.11	21.58	2.08	21.58	2.08	21.23	1.73
32	20.38	-3.22	20.36	-3.24	20.37	-3.23	19.50	-4.10
8	19.11	-2.89	19.09	-2.91	19.09	-2.91	17.53	-4.47
2	16.68	-4.22	16.67	-4.23	16.67	-4.23	13.55	-7.35
0	14.24	XXXX	14.24	XXXX	14.24	XXXX	9.56	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.65	2.92	6.68	2.95	6.69	2.96	6.69	2.96
900	6.89	3.01	6.92	3.04	6.92	3.04	6.92	3.04
800	7.08	2.99	7.12	3.03	7.13	3.04	7.12	3.03
700	7.31	3.08	7.33	3.10	7.34	3.11	7.33	3.10
600	7.46	3.12	7.49	3.15	7.49	3.15	7.49	3.15
500	7.63	3.14	7.66	3.17	7.66	3.17	7.66	3.17
400	7.73	2.94	7.76	2.97	7.77	2.98	7.76	2.97
300	7.84	2.39	7.90	2.45	7.89	2.44	7.85	2.40
200	7.92	2.19	7.95	2.22	7.95	2.22	7.90	2.17
100	8.09	1.82	8.12	1.85	8.12	1.85	7.93	1.66
32	8.47	2.16	8.48	2.17	8.48	2.17	8.05	1.74
8	9.18	2.67	9.18	2.67	9.18	2.67	8.39	1.88
2	10.91	10.91	10.91	10.91	10.91	10.91	9.24	9.24
0	12.65	XXXX	12.65	XXXX	12.64	XXXX	10.10	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	283.0		284.0		285.0		286.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	18.15	17.25	18.14	17.24	18.14	17.24	7.19	6.29
-0.125	26.19	1.13	26.18	1.12	26.19	1.13	25.21	.15
-0.250	27.50	1.39	27.50	1.39	27.50	1.39	27.47	.36
-0.500	26.28	1.28	26.28	1.28	26.28	1.28	26.28	1.28
-1.000	22.67	1.23	22.68	1.24	22.68	1.24	22.68	1.24
-2.000	26.83	5.50	26.84	5.51	26.84	5.51	22.55	1.22

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	0.95	-0.75	0.95	-0.75	0.95	-0.75	0.95	-0.75
2	0.47	-0.23	0.47	-0.23	0.47	-0.23	0.47	-0.23

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.66	0.16	1.66	0.16	1.66	0.16	1.66	0.16
R(N)	-0.67	XXXX	-0.67	XXXX	-0.67	XXXX	-0.21	XXXX
Q(C,0)	-0.97	XXXX	-0.96	XXXX	-0.97	XXXX	-1.59	XXXX
Q(E,0)	1.41	XXXX	1.41	XXXX	1.41	XXXX	0.71	XXXX
Q(S,0)	-1.11	XXXX	-1.11	XXXX	-1.11	XXXX	0.68	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.52	XXXX	0.52	XXXX	0.54	XXXX	0.54	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.90	XXXX	0.90	XXXX	1.00	XXXX	0.50	XXXX

CASE DPG 3 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KICM SQ/SEC)	2794	2804	2794	2804
TAPE NO.	287.0	288.0	289.0	290.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-4.84	0.02	-4.84	0.02	-1.74	3.11	-1.74	3.11
1000	2.48	-0.63	3.48	0.38	3.80	0.69	3.03	-0.08
900	3.40	1.74	3.45	1.79	3.77	2.11	3.73	2.07
800	3.41	1.75	3.41	1.75	3.74	2.08	3.74	2.07
700	3.36	1.62	3.36	1.62	3.69	1.95	3.69	1.95
600	3.31	1.35	3.31	1.36	3.64	1.68	3.64	1.68
500	3.20	1.28	3.20	1.28	3.53	1.60	3.53	1.60
400	2.97	0.58	2.97	0.58	3.30	0.91	3.30	0.91
300	2.60	1.71	2.61	1.72	2.95	2.06	2.94	2.05
200	2.02*	2.74	2.03*	2.75	2.36*	3.08	2.36*	3.08
100	1.16*	2.70	1.16*	2.70	1.50*	3.04	1.50*	3.04
32	0.36*	2.40	0.36*	2.40	0.68*	2.72	0.68*	2.72
8	0.09*	0.56	0.09*	0.56	0.38*	0.85	0.38*	0.85

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.77*	3.54	1.78*	3.55	0.11*	1.88	0.11*	1.88
1000	0.74	-1.96	0.59	-2.10	1.06	-1.64	1.19	-1.51
900	0.64	-3.11	0.64	-3.11	1.11	-2.64	1.12	-2.63
800	0.65	-3.10	0.66	-3.10	1.14	-2.62	1.14	-2.62
700	0.69	-3.03	0.69	-3.03	1.17	-2.56	1.17	-2.56
600	0.72	-3.48	0.72	-3.48	1.20	-2.99	1.15	-3.05
500	0.76	-4.01	0.76	-4.00	1.24	-3.52	1.24	-3.52
400	0.85	-4.27	0.84	-4.28	1.32	-3.80	1.32	-3.80
300	0.95	-4.11	0.95	-4.11	1.44	-3.63	1.44	-3.62
200	1.07	-2.97	1.07	-2.97	1.55	-2.49	1.55	-2.49
100	1.17	-1.49	1.17	-1.50	1.65	-1.02	1.65	-1.01
32	1.11	-2.55	1.11	-2.55	1.58	-2.09	1.58	-2.09
8	0.92	-0.71	0.91	-0.71	1.32	-0.30	1.32	-0.30

CASE DPG 3 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	287.0		288.0		289.0		290.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	20.24	0.24	20.25	0.25	20.17	0.17	20.17	0.17
900	21.18	0.18	21.20	0.20	21.12	0.12	21.12	0.12
800	21.90	0.10	21.90	0.10	21.82	0.02	21.83	0.03
700	22.39	0.09	22.41	0.11	22.32	0.02	22.32	0.02
600	22.68	-0.32	22.68	-0.32	22.62	-0.38	22.62	-0.38
500	22.82	-0.68	22.82	-0.68	22.76	-0.74	22.76	-0.74
400	22.81	0.51	22.81	0.51	22.75	0.45	22.74	0.44
300	22.64	0.44	22.64	0.44	22.59	0.39	22.58	0.38
200	22.18	-0.32	22.18	-0.32	22.14	-0.36	22.14	-0.36
100	21.26	1.76	21.26	1.76	21.24	1.74	21.23	1.73
32	19.52	-4.08	19.53	-4.07	19.51	-4.09	19.51	-4.09
8	17.54	-4.46	17.54	-4.46	17.53	-4.47	17.53	-4.47
2	13.55	-7.35	13.56	-7.34	13.55	-7.35	13.56	-7.34
0	9.56	XXXX	9.57	XXXX	9.56	XXXX	9.57	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	6.66	2.93	6.65	2.92	6.69	2.96	6.69	2.96
900	6.91	3.03	6.88	3.00	6.92	3.04	6.92	3.04
800	7.10	3.01	7.09	3.00	7.13	3.04	7.12	3.03
700	7.31	3.08	7.31	3.08	7.34	3.11	7.33	3.10
600	7.47	3.13	7.46	3.12	7.50	3.16	7.49	3.15
500	7.63	3.14	7.63	3.14	7.64	3.15	7.63	3.14
400	7.72	2.93	7.73	2.94	7.77	2.98	7.76	2.97
300	7.82	2.37	7.82	2.37	7.86	2.41	7.85	2.40
200	7.86	2.13	7.86	2.13	7.90	2.17	7.90	2.17
100	7.92	1.65	7.92	1.65	7.94	1.67	7.93	1.66
32	8.05	1.74	8.05	1.74	8.06	1.75	8.06	1.75
8	8.37	1.86	8.36	1.85	8.38	1.87	8.37	1.86
2	9.24	9.24	9.23	9.23	9.24	9.24	9.24	9.24
0	10.11	XXXX	10.11	XXXX	10.11	XXXX	10.11	XXXX

CASE DPG 3 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	287.0		288.0		289.0		290.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	7.20	6.30	7.20	6.30	7.19	6.29	7.11	6.21
-0.125	25.21	0.15	25.21	0.15	25.21	0.15	25.21	0.15
-0.250	27.47	1.36	27.47	1.36	27.47	1.36	27.47	1.36
-0.500	26.28	1.28	26.29	1.29	26.29	1.29	26.29	1.29
-1.000	22.67	1.23	22.67	1.23	22.67	1.23	22.68	1.24
-2.000	22.57	1.24	22.56	1.23	22.56	1.23	22.56	1.23

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	0.95	-0.75	0.95	-0.75	1.40	-0.30	1.40	-0.30
2	0.48	-0.22	0.47	-0.23	0.70	0.00	0.70	0.00

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.66	0.16	1.66	0.16	1.66	0.16	1.66	0.16
R(N)	-0.20	XXXX	-0.21	XXXX	-0.20	XXXX	-0.21	XXXX
Q(C,0)	-1.59	XXXX	-1.59	XXXX	-1.59	XXXX	-1.59	XXXX
Q(E,0)	0.71	XXXX	0.72	XXXX	0.71	XXXX	0.71	XXXX
Q(S,0)	0.68	XXXX	0.68	XXXX	0.68	XXXX	0.68	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.54	XXXX	0.54	XXXX	0.82	XXXX	0.82	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.50	XXXX	0.50	XXXX	0.60	XXXX	0.50	XXXX

CASE DPG 4 TAPE LOG

TAPE NO.	POST INT	SM	KMB D8	SCG	ADV	GEO	REMARKS
294.	12	A	V	A	N	0	NONE
295.	12	A	V	A	N	1	NONE
296.	12	A	V	A	F	0	NONE
303.	12	B	F	A	N	0	NONE
304.	12	B	F	A	F	1	NONE
305.	12	B	F	A	F	0	NONE
306.	12	A	F	A	F	0	NONE
307.	12	A	F	A	N	1	NONE
308.	12	A	F	A	N	0	NONE
309.	12	A	F	F	F	0	NONE
310.	12	A	F	F	F	1	NONE
311.	12	A	F	F	N	0	NONE
316.	6	A	V	F	N	0	NONE
317.	6	A	V	F	N	1	NONE
318.	6	A	V	F	F	0	NONE
322.	6	B	F	A	N	0	NONE
323.	6	B	F	A	F	1	NONE
324.	6	B	F	A	F	0	NONE
325.	6	A	F	A	F	0	NONE
326.	6	A	F	A	N	1	NONE
327.	6	A	F	A	N	0	NONE
328.	6	A	F	F	F	0	NONE
329.	6	A	F	F	F	1	NONE
330.	6	A	F	F	N	0	NONE
332.	2	A	V	A	N	0	NONE
333.	2	A	V	A	N	1	NONE
334.	2	A	V	A	F	0	NONE
335.	2	A	V	F	N	0	NONE
336.	2	A	V	F	N	1	NONE
337.	2	A	V	F	F	0	NONE
338.	2	B	V	F	F	0	NONE
339.	2	B	V	F	N	1	NONE
340.	2	B	V	F	N	0	NONE
341.	2	B	F	A	N	0	NONE
342.	2	B	F	A	F	1	NONE
343.	2	B	F	A	F	0	NONE
344.	2	A	F	A	F	0	NONE
345.	2	A	F	A	N	1	NONE
346.	2	A	F	A	N	0	NONE
347.	2	A	F	F	F	0	NONE

CASE DPG 4 TAPE LOG

TAPE NO.	FCST INT	SM	KMB D8	SCG	ADV	GEO	REMARKS
348.	2	A	F	F	F	I	NONE
349.	2	A	F	F	N	O	NONE
351.	1	A	V	A	N	O	NONE
352.	1	A	V	A	N	I	NONE
353.	1	A	V	A	F	O	NONE
354.	1	A	V	F	N	O	NONE
355.	1	A	V	F	N	I	NONE
356.	1	A	V	F	F	O	NONE
357.	1	B	V	F	F	O	NONE
358.	1	B	V	F	N	I	NONE
359.	1	B	V	F	N	O	NONE
360.	1	B	F	A	N	O	NONE
361.	1	B	F	A	F	I	NONE
362.	1	B	F	A	F	O	NONE
363.	1	A	F	A	F	O	NONE
364.	1	A	F	A	N	I	NONE
365.	1	A	F	A	N	O	NONE
366.	1	A	F	F	F	O	NONE
367.	1	A	F	F	F	I	NONE
368.	1	A	F	F	N	O	NONE

DPG 04 INITIAL CONDITIONS - 0400C 15 AUGUST 1969
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SOIL PARAMETERS

T'_0 = 14.34 °C	T'_{-1} = 20.72 °C	$\sqrt{\mu\lambda}$ = 0.036 cal/cm^{4}deg^{2}sec
$T'_{-1/8}$ = 25.89 °C	T'_{-2} = 20.61 °C	Z_o = 2.0 cm
$T'_{-1/4}$ = 26.00 °C	λ = 0.59 cal/cm^{3}deg	S_o = .0004 cal/cm^{2}sec mb
$T'_{-1/2}$ = 24.17 °C	μ/λ = .0037 cm^2/sec	G = 3500. cm^{2}sec deg/cal

RADIATION PARAMETERS

Local Time = 0400 C	e'_8 = 6.91 mb	F_c = 0.93
	ε = 0.950	j = 0.26
δ = 14.354 deg	ϕ = 40.2 deg	m = 0.620
R x 10^5 = 1.74 °C/sec	N = 0.26	n = .0415 mb$^{-1/2}$
Cloud Class = 1	ψ = 0.976	H = -105.0 deg

HORIZONTAL GRADIENTS

$\frac{\partial e}{\partial x}_{200}$ = 0.33 mb/100 km	$\frac{\partial e}{\partial x}_{600}$ = 0.27 mb/100 km	$\frac{\partial e}{\partial x}_{1000}$ = 0.21 mb/100 km
$\frac{\partial e}{\partial y}_{200}$ = -0.08 mb/100 km	$\frac{\partial e}{\partial y}_{600}$ = -0.22 mb/100 km	$\frac{\partial e}{\partial y}_{1000}$ = -0.36 mb/100 km
$\frac{\partial T}{\partial x}_{200}$ = -0.08 °C/100 km	$\frac{\partial T}{\partial x}_{600}$ = -0.01 °C/100 km	$\frac{\partial T}{\partial x}_{1000}$ = 0.06 °C/100 km
$\frac{\partial T}{\partial y}_{200}$ = 0.30 °C/100 km	$\frac{\partial T}{\partial y}_{600}$ = 0.18 °C/100 km	$\frac{\partial T}{\partial y}_{1000}$ = 0.06 °C/100 km

DPG 04 INITIAL CONDITIONS - 0400C 15 AUGUST 1969
(page 2 of 2 pages)

WIND COMPONENTS (m/sec)				TEMPERATURE (°C)		VAPOR PRESSURE (mb)	
u_8	= -0.30	v_8	= 2.48	T_8	= 21.80	e_8	= 6.91
u_{32}	= -3.52	v_{32}	= 3.40	T_{32}	= 24.60	e_{32}	= 6.81
u_{100}	= 1.60	v_{100}	= 3.78	T_{100}	= 25.47	e_{100}	= 15.95
u_{200}	= 1.54	v_{200}	= 1.67	T_{200}	= 26.61	e_{200}	= 15.65
u_{300}	= 2.89	v_{300}	= 2.03	T_{300}	= 26.90	e_{300}	= 14.99
u_{400}	= 2.95	v_{400}	= 2.07	T_{400}	= 26.18	e_{400}	= 14.66
u_{500}	= 2.95	v_{500}	= 2.07	T_{500}	= 25.66	e_{500}	= 13.99
u_{600}	= 2.95	v_{600}	= 2.07	T_{600}	= 25.01	e_{600}	= 13.49
u_{700}	= 2.95	v_{700}	= 2.07	T_{700}	= 24.37	e_{700}	= 13.89
u_{800}	= 2.95	v_{800}	= 2.07	T_{800}	= 23.85	e_{800}	= 12.59
u_{900}	= 2.95	v_{900}	= 2.07	T_{900}	= 23.08	e_{900}	= 12.15
u_{1000}	= 2.95	v_{1000}	= 2.07	T_{1000}	= 22.52	e_{1000}	= 11.73

ADVECTION TERMS (sec^{-1})

α^1_{200} -0.03 x 10^{-5}	α^1_{600} -0.08 x 10^{-5}	α^1_{1000} -0.13 x 10^{-5}
β^1_{200} -0.00 x 10^{-5}	β^1_{600} -0.01 x 10^{-5}	β^1_{1000} -0.02 x 10^{-5}
α^2_{200} 0.11 x 10^{-5}	α^2_{600} 0.33 x 10^{-5}	α^2_{1000} 0.56 x 10^{-5}
β^2_{200} 1.31 x 10^{-5}	β^2_{600} 0.84 x 10^{-5}	β^2_{1000} 0.38 x 10^{-5}

CONTOUR GRADIENT TERMS

	0 hour	1 hour	2 hour	6 hour	12 hour	
Azimuth	197.	40.	50.	90.	160.	(deg from North)
Magnitude	5.52	42.82	41.18	32.94	32.94	(ft/100 km)

CASE CPG 4 COMPARISON DATA FROM BLOWAY (1 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-10.42	8.74		
1000	3.60	0.0	23.10	11.78
900	3.98	1.07	24.00	12.13
800	3.87	1.41	24.90	12.63
700	3.26	1.52	25.50	13.08
600	2.53	1.77	26.10	13.38
500	-1.06	2.90	26.80	13.77
400	1.54	2.67	27.20	14.09
300	1.06	2.90	27.80	14.50
200	2.90	1.06	27.00	13.08
100	2.90	-1.06	24.90	9.98
32	-0.58	4.16	23.60	6.71
8	0.45	2.86	22.00	8.67
2	0.27	1.68	20.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)	
-0.0	19.00
-0.125	23.61
-0.250	23.94
-0.500	22.22
-1.000	19.00
-2.000	18.78

WIND SPEED (M/SEC)	
8	2.90
2	1.70

SURFACE SHEAR STRESS
(DYNES/CM SQ.)X10
TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)= 0.90 G(E,0)= XXXX
R(N)= XXXX G(S,0)= XXXX
G(C,0)= XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 4 COMPARISON DATA FROM DUGWAY (2 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	-8.41	10.02		
1000	4.63	0.0	21.60	10.85
900	3.59	0.31	22.40	11.24
800	3.04	0.54	23.30	11.51
700	3.38	1.23	24.50	12.27
600	3.37	2.36	25.70	13.08
500	3.64	3.64	26.10	13.38
400	3.25	4.64	26.30	13.70
300	1.20	4.47	26.90	14.01
200	-0.31	3.59	25.40	12.27
100	-0.87	1.87	23.60	9.63
32	-0.87	2.66	24.70	6.97
8	-0.70	1.66	24.50	7.10
2	-0.67	0.99	23.90	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	17.50
-0.125	22.50
-0.250	22.94
-0.500	21.39
-1.000	18.17
-2.000	18.00

WIND SPEED (M/SEC)

8	1.80
2	1.20

SURFACE SHEAR STRESS
(DYNES/CM SQ.)X10
TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	5.00	Q(E,0)=	XXXX
R(N)=	XXXX	G(S,0)=	XXXX
C(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 4 COMPARISON DATA FROM DUGWAY (6 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	0.0	10.46		
1000	1.46	1.46	23.00	12.34
900	1.46	1.46	24.00	12.78
800	1.58	1.32	24.90	13.46
700	2.37	1.98	25.80	14.17
600	2.37	1.98	26.50	14.92
500	2.95	2.07	27.30	15.52
400	2.95	2.07	28.20	16.15
300	3.56	2.06	29.00	16.89
200	2.65	3.15	30.00	17.76
100	1.41	3.87	31.70	18.88
32	1.74	1.17	34.60	8.75
8	2.09	-0.18	34.00	8.43
2	1.53	0.75	32.20	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	52.60
-0.125	20.79
-0.250	20.83
-0.500	19.72
-1.000	16.56
-2.000	16.44

WIND SPEED (M/SEC)

8	2.10
2	1.70

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(D)=	19.50	Q(E,0)=	XXXX
R(N)=	XXXX	Q(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE CPG 4 COMPARISON DATA FROM DUGWAY (12 HOUR)

	WIND COMPONENTS U (M/SEC)	V	TEMPERATURE (DEG C)	VAPOR PRESSURE (MB)
GEO	9.83	3.58		
1000	3.76	3.51	27.00	15.44
900	3.64	3.64	28.00	16.33
800	2.88	4.27	29.00	16.99
700	2.34	4.58	30.00	17.76
600	2.09	4.70	31.00	18.77
500	2.17	4.66	32.10	19.62
400	2.66	5.00	33.00	11.58
300	3.44	5.73	34.10	12.06
200	2.48	5.09	34.80	15.88
100	0.88	4.55	35.30	12.13
32	1.31	3.25	37.90	7.37
8	0.85	3.40	37.30	6.93
2	0.24	2.69	36.40	XXXX
0	XXXX	XXXX	XXXX	XXXX

SOIL TEMPERATURE (DEG C)

-0.0	41.70
-0.125	24.11
-0.250	2'.78
-0.500	19.83
-1.000	16.67
-2.000	16.56

WIND SPEED (M/SEC)

8	3.50
2	2.70

SURFACE SHEAR STRESS (DYNES/CM SQ.)X10

TAU= XXXX

SURFACE ENERGY TERMS (LY/SEC)X1000

S(0)=	5.00	Q(E,0)=	XXXX
R(N)=	XXXX	G(S,0)=	XXXX
Q(C,0)=	XXXX		

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ.)X100

E= XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	9779	9684	9764	10689
TAPE NO.	294.0	295.0	296.0	303.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	9.82	-0.01	9.83	-0.00	9.82	-0.01	9.82	-0.01
1000	6.32	2.56	7.27	3.51	6.30	2.55	6.68	2.92
900	6.14	2.51	6.40	2.77	6.13	2.49	6.59	2.95
800	5.96	3.09	6.09	3.22	5.96	3.09	6.46	3.58
700	5.80	3.47	5.88	3.55	5.80	3.47	6.30	3.96
600	5.64	3.56	5.69	3.61	5.63	3.55	6.13	4.05
500	5.47	3.30	5.51	3.34	5.46	3.30	5.95	3.79
400	5.27	2.61	5.31	2.65	5.27	2.61	5.75	3.09
300	5.06	1.62	5.09	1.65	5.05	1.61	5.52	2.08
200	4.77	2.30	4.79	2.31	4.77	2.29	5.22	2.74
100	4.36	3.48	4.37	3.49	4.36	3.48	4.77	3.89
32	3.72	2.41	3.75	2.44	3.73	2.42	4.09	2.78
8	3.01	2.16	3.02	2.17	3.01	2.16	3.30	2.45

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	3.59	0.01	3.59	0.01	3.59	0.01	3.59	0.01
1000	7.42	3.91	6.53	3.03	7.38	3.87	7.16	3.66
900	7.61	3.97	7.19	3.56	7.57	3.94	7.35	3.72
800	7.66	3.39	7.39	3.12	7.63	3.36	7.41	3.15
700	7.68	3.10	7.47	2.89	7.65	3.07	7.43	2.85
600	7.66	2.97	7.49	2.80	7.64	2.94	7.42	2.72
500	7.61	2.95	7.47	2.81	7.59	2.93	7.37	2.72
400	7.53	2.53	7.40	2.40	7.52	2.52	7.30	2.30
300	7.41	1.68	7.30	1.57	7.39	1.66	7.18	1.45
200	7.19	2.11	7.10	2.02	7.18	2.10	6.97	1.89
100	6.79	2.24	6.71	2.16	6.78	2.24	6.58	2.03
32	6.01	2.76	5.95	2.70	6.01	2.76	5.81	2.56
8	4.95	1.55	4.89	1.49	4.93	1.53	4.77	1.37

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	294.0	295.0	296.0	303.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	26.57	-0.43	26.57	-0.43	26.58	-0.42	25.90	-1.10
900	26.91	-1.09	26.90	-1.10	26.93	-1.07	26.33	-1.67
800	27.04	-1.96	27.03	-1.97	27.06	-1.94	26.51	-2.49
700	27.13	-2.87	27.12	-2.88	27.17	-2.83	26.65	-3.35
600	27.19	-3.81	27.18	-3.82	27.22	-3.78	26.73	-4.27
500	27.24	-4.86	27.23	-4.87	27.27	-4.83	26.81	-5.29
400	27.24	-5.76	27.24	-5.76	27.28	-5.72	26.84	-6.16
300	27.25	-6.85	27.25	-6.85	27.29	-6.81	26.87	-7.23
200	27.22	-7.58	27.22	-7.58	27.26	-7.54	26.86	-7.94
100	27.13	-8.17	27.14	-8.16	27.17	-8.13	26.82	-8.48
32	26.90	-11.00	26.90	-11.00	26.93	-10.97	26.62	-11.28
8	26.59	-10.71	26.58	-10.72	26.61	-10.69	26.36	-10.94
2	25.86	-10.54	25.85	-10.55	25.88	-10.52	25.77	-10.63
0	24.95	XXXX	24.95	XXXX	24.97	XXXX	25.01	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	15.81	0.37	15.77	0.33	15.84	0.40	15.99	0.55
900	16.55	0.22	16.51	0.18	16.61	0.28	16.87	0.54
800	17.05	0.06	17.02	0.03	17.11	0.12	17.43	0.44
700	17.51	-0.25	17.49	-0.27	17.58	-0.18	17.93	0.17
600	17.90	-0.87	17.90	-0.87	17.98	-0.79	18.36	-0.41
500	18.33	-1.29	18.32	-1.30	18.42	-1.20	18.80	-0.82
400	18.72	7.14	18.72	7.14	18.82	7.24	19.21	7.63
300	19.16	7.10	19.16	7.10	19.26	7.20	19.65	7.59
200	19.60	3.72	19.60	3.72	19.71	3.83	20.09	4.21
100	20.21	8.08	20.21	8.08	20.32	8.19	20.69	8.56
32	20.85	13.48	20.84	13.47	20.95	13.58	21.29	13.92
8	21.45	14.52	21.45	14.52	21.55	14.62	21.86	14.93
2	22.44	22.44	22.45	22.45	22.54	22.54	22.73	22.73
0	23.68	XXXX	23.69	XXXX	23.77	XXXX	23.87	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	294.0	295.0	296.0	303.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	26.73	-14.97	26.73	-14.97	26.73	-14.97	27.16	-14.54
-0.125	25.21	1.10	25.21	1.10	25.21	1.10	26.22	2.11
-0.250	24.95	3.17	24.94	3.16	24.95	3.17	25.42	3.64
-0.500	23.97	4.14	23.97	4.14	23.97	4.14	24.02	4.19
-1.000	20.87	4.20	20.86	4.19	20.86	4.19	20.97	4.30
-2.000	20.62	4.06	20.62	4.06	20.61	4.05	25.89	9.33

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.79	2.29	5.75	2.25	5.78	2.28	5.81	2.31
2	3.21	0.51	3.19	0.49	3.21	0.51	3.29	0.59

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.50	0.50	5.50	0.50	5.53	0.53	5.55	0.55
R(N)	1.51	XXXX	1.52	XXXX	1.50	XXXX	1.49	XXXX
Q(C,0)	-1.12	XXXX	-1.11	XXXX	-1.12	XXXX	-1.02	XXXX
Q(E,0)	3.16	XXXX	3.15	XXXX	3.14	XXXX	3.13	XXXX
Q(S,0)	-0.50	XXXX	-0.51	XXXX	-0.50	XXXX	-0.61	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	11.96	XXXX	11.76	XXXX	11.92	XXXX	13.12	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	37.10	XXXX	37.10	XXXX	37.00	XXXX	40.50	XXXX

CASE LPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10689	10689	10689	10694
TAPE NO.	304.0	305.0	306.0	307.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	9.82	-0.01	9.82	-0.01	9.82	-0.01	9.82	-0.01
1000	7.48	3.73	6.66	2.91	6.66	2.90	7.51	3.76
900	6.80	3.16	6.58	2.94	6.57	2.94	6.82	3.19
800	6.54	3.66	6.44	3.56	6.43	3.56	6.56	3.69
700	6.35	4.02	6.29	3.95	6.29	3.95	6.36	4.03
600	6.17	4.06	6.13	4.04	6.12	4.04	6.18	4.09
500	5.98	3.81	5.95	3.79	5.95	3.79	5.99	3.83
400	5.77	3.11	5.75	3.09	5.74	3.09	5.78	3.12
300	5.53	2.10	5.52	2.08	5.51	2.07	5.54	2.10
200	5.23	2.76	5.22	2.74	5.21	2.73	5.24	2.76
100	4.78	3.90	4.77	3.89	4.76	3.88	4.78	3.90
32	4.09	2.78	4.09	2.78	4.08	2.77	4.10	2.80
8	3.31	2.46	3.30	2.45	3.30	2.45	3.31	2.46

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	3.59	0.01	3.59	0.01	3.59	0.01	3.59	0.01
1000	6.26	2.76	7.12	3.62	7.12	3.62	6.29	2.78
900	6.71	3.28	7.31	3.68	7.31	3.68	6.95	3.31
800	7.12	2.85	7.38	3.11	7.38	3.11	7.15	2.89
700	7.21	2.63	7.40	2.82	7.41	2.83	7.24	2.66
600	7.24	2.54	7.40	2.70	7.40	2.70	7.26	2.56
500	7.22	2.56	7.35	2.69	7.35	2.69	7.24	2.59
400	7.17	2.17	7.28	2.28	7.28	2.28	7.18	2.18
300	7.06	1.34	7.16	1.44	7.16	1.43	7.08	1.35
200	6.87	1.78	6.96	1.87	6.96	1.87	6.88	1.80
100	6.48	1.94	6.57	2.02	6.56	2.02	6.50	1.95
32	5.75	2.50	5.80	2.55	5.80	2.55	5.75	2.50
8	4.72	1.32	4.77	1.37	4.76	1.36	4.72	1.32

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	304.0		305.0		306.0		307.0	
INTERVAL	12HR		12HR		12HR		12HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	25.92	-1.08	25.92	-1.08	25.66	-1.34	25.63	-1.37
900	26.35	-1.65	26.36	-1.64	26.09	-1.91	26.06	-1.94
800	26.55	-2.45	26.56	-2.44	26.28	-2.72	26.25	-2.75
700	26.68	-3.32	26.69	-3.31	26.41	-3.59	26.37	-3.63
600	26.77	-4.23	26.77	-4.23	26.50	-4.50	26.45	-4.55
500	26.85	-5.25	26.85	-5.25	26.57	-5.53	26.53	-5.57
400	26.90	-6.10	26.90	-6.10	26.61	-6.39	26.56	-6.44
300	26.91	-7.19	26.93	-7.17	26.64	-7.46	26.60	-7.50
200	26.91	-7.89	26.91	-7.89	26.64	-8.16	26.59	-8.21
100	26.86	-8.44	26.86	-8.44	26.58	-8.72	26.54	-8.76
32	26.65	-11.25	26.65	-11.25	26.39	-11.51	26.34	-11.56
8	26.41	-10.89	26.41	-10.89	26.15	-11.15	26.11	-11.19
2	25.82	-10.58	25.81	-10.59	25.58	-10.82	25.55	-10.85
0	25.05	XXXX	25.02	XXXX	24.84	XXXX	24.81	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	16.01	0.57	16.01	0.57	15.82	0.38	15.75	0.31
900	16.91	0.58	16.92	0.59	16.71	0.38	16.64	0.31
800	17.49	0.50	17.50	0.51	17.27	0.28	17.19	0.20
700	17.99	0.23	17.99	0.23	17.76	0.0	17.67	-0.09
600	18.43	-0.34	18.43	-0.34	18.20	-0.57	18.09	-0.68
500	18.88	-0.74	18.89	-0.73	18.64	-0.98	18.53	-1.09
400	19.29	7.71	19.29	7.71	19.04	7.46	18.93	7.35
300	19.75	7.69	19.76	7.70	19.49	7.43	19.37	7.31
200	20.19	4.31	20.20	4.32	19.92	4.04	19.81	3.93
100	20.79	8.66	20.79	8.66	20.52	8.39	20.39	8.26
32	21.39	14.02	21.40	14.03	21.12	13.75	20.99	13.62
8	21.95	15.02	21.95	15.02	21.66	14.73	21.55	14.62
2	22.82	22.82	22.82	22.82	22.52	22.52	22.41	22.41
0	23.96	XXXX	23.96	XXXX	23.64	XXXX	23.54	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	304.0	305.0	306.0	307.0
INTERVAL	12HR	12HR	12HR	12HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	27.17	-14.53	27.17	-14.53	26.95	-14.75	26.93	-14.77
-0.125	26.23	2.12	26.22	2.11	25.45	1.34	25.45	1.34
-0.250	25.42	3.64	25.42	3.64	25.04	3.26	25.04	3.26
-0.500	24.02	4.19	24.02	4.19	23.98	4.15	23.99	4.16
-1.000	20.96	4.29	20.96	4.29	20.87	4.20	20.86	4.19
-2.000	25.89	9.33	25.88	9.32	20.61	4.05	20.62	4.06

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.77	2.27	5.80	2.30	5.80	2.30	5.77	2.27
2	3.26	0.56	3.28	0.58	3.29	0.59	3.28	0.58

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.56	0.56	5.51	0.51	5.55	0.55	5.55	0.55
R(N)	1.49	XXXX	1.46	XXXX	1.49	XXXX	1.49	XXXX
Q(C,0)	-1.01	XXXX	-1.02	XXXX	-0.98	XXXX	-0.98	XXXX
Q(E,0)	3.12	XXXX	3.11	XXXX	3.09	XXXX	3.10	XXXX
Q(S,0)	-0.60	XXXX	-0.61	XXXX	-0.60	XXXX	-0.61	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	13.04	XXXX	13.12	XXXX	13.12	XXXX	13.06	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	40.30	XXXX	40.40	XXXX	38.30	XXXX	38.40	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10689	10689	10689	10689
TAPE NO.	309.0	309.0	310.0	311.0
INTERVAL	12HR	12HR	12HR	12HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	9.82	-0.01	1.67	-8.16	1.67	-8.16	1.67	-8.16
1000	6.68	2.93	-1.04*	-4.80	-0.26*	-4.02	-1.19*	-4.95
900	6.59	2.95	-0.69*	-4.33	-0.39*	-4.03	-0.81*	-4.45
800	6.45	3.58	-0.53*	-3.41	-0.33*	-3.21	-0.64*	-3.52
700	6.30	3.97	-0.44*	-2.78	-0.27*	-2.61	-0.53*	-2.87
600	6.14	4.05	-0.37*	-2.46	-0.22*	-2.31	-0.45*	-2.54
500	5.96	3.79	-0.31*	-2.48	-0.18*	-2.35	-0.38*	-2.55
400	5.76	3.10	-0.26*	-2.92	-0.14*	-2.80	-0.34*	-3.00
300	5.52	2.09	-0.22*	-3.66	-0.11*	-3.55	-0.29*	-3.73
200	5.22	2.74	-0.19*	-2.67	-0.09*	-2.57	-0.25*	-2.73
100	4.77	3.89	-0.15*	-1.03	-0.06*	-0.94	-0.21*	-1.09
32	4.09	2.78	-0.12*	-1.43	-0.04*	-1.35	-0.16*	-1.47
8	3.30	2.45	-0.09*	-0.94	-0.03*	-0.88	-0.13*	-0.98

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	3.59	0.01	-0.50*	-4.08	-0.51*	-4.09	-0.51*	-4.09
1000	7.16	3.66	-1.25*	-4.76	-1.49*	-5.00	-1.27*	-4.78
900	7.35	3.72	-1.10*	-4.74	-1.18*	-4.82	-1.11*	-4.75
800	7.42	3.15	-1.01*	-5.28	-1.04*	-5.31	-1.01*	-5.28
700	7.45	2.87	-0.91*	-5.49	-0.93*	-5.51	-0.91*	-5.49
600	7.42	2.72	-0.84*	-5.54	-0.86*	-5.56	-0.84*	-5.54
500	7.38	2.72	-0.76*	-5.42	-0.78*	-5.44	-0.76*	-5.42
400	7.30	2.30	-0.69*	-5.09	-0.70*	-5.10	-0.69*	-5.09
300	7.18	1.45	-0.62*	-6.35	-0.63*	-6.38	-0.62*	-6.35
200	6.97	1.89	-0.54*	-5.63	-0.55*	-5.64	-0.54*	-5.63
100	6.58	2.03	-0.45*	-5.00	-0.46*	-5.01	-0.45*	-5.00
32	5.82	2.57	-0.36*	-3.61	-0.35*	-3.61	-0.35*	-3.60
8	4.78	1.38	-0.28*	-3.68	-0.28*	-3.68	-0.28*	-3.68

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	308.0	309.0	310.0	311.0
INTERVAL	12HR	12HR	12HR	12HR

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	25.64	-1.36	25.66	-1.34	25.66	-1.34	25.87	-1.13
900	26.06	-1.94	26.08	-1.92	26.09	-1.91	26.29	-1.71
800	26.24	-2.76	26.28	-2.72	26.28	-2.72	26.49	-2.51
700	26.37	-3.63	26.41	-3.59	26.41	-3.59	26.62	-3.38
600	26.45	-4.55	26.49	-4.51	26.50	-4.50	26.71	-4.29
500	26.53	-5.57	26.57	-5.53	26.57	-5.53	26.77	-5.33
400	26.56	-6.44	26.61	-6.39	26.60	-6.40	26.81	-6.19
300	26.59	-7.51	26.63	-7.47	26.63	-7.47	26.83	-7.27
200	26.59	-8.21	26.64	-8.16	26.63	-8.17	26.82	-7.98
100	26.54	-8.76	26.58	-8.72	26.58	-8.72	26.76	-8.54
32	26.33	-11.57	26.36	-11.54	26.36	-11.54	26.51	-11.39
8	26.11	-11.19	26.14	-11.16	26.13	-11.17	26.26	-11.04
2	25.54	-10.86	25.49	-10.91	25.49	-10.91	25.56	-10.84
0	24.79	XXXX	24.83	XXXX	24.84	XXXX	24.86	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	15.81	0.37	15.83	0.39	15.82	0.38	15.54	0.10
900	16.67	0.34	16.71	0.38	16.71	0.38	16.46	0.13
800	17.21	0.22	17.27	0.28	17.27	0.28	17.05	0.06
700	17.71	-0.05	17.77	0.01	17.76	0.0	17.55	-0.21
600	18.11	-0.66	18.19	-0.58	18.19	-0.58	17.99	-0.78
500	18.55	-1.07	18.64	-0.98	18.64	-0.98	18.43	-1.19
400	18.95	7.37	19.04	7.46	19.04	7.46	18.85	7.27
300	19.39	7.33	19.49	7.43	19.49	7.43	19.29	7.23
200	19.83	3.95	19.94	4.06	19.93	4.05	19.74	3.86
100	20.41	8.28	20.51	8.38	20.51	8.38	20.32	8.19
32	21.00	13.63	21.11	13.74	21.12	13.75	20.93	13.56
8	21.56	14.63	21.67	14.74	21.66	14.73	21.48	14.55
2	22.41	22.41	22.66	22.66	22.65	22.65	22.50	22.50
0	23.54	XXXX	23.65	XXXX	23.64	XXXX	23.53	XXXX

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	316.0		317.0		318.0		322.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.41	1.41	24.41	1.41	24.37	1.37	24.41	1.41
900	24.99	0.99	24.99	0.99	24.92	0.92	24.53	0.53
800	25.24	0.34	25.25	0.35	25.17	0.27	24.63	-0.27
700	25.42	-0.38	25.43	-0.37	25.34	-0.46	24.74	-1.06
600	25.57	-0.93	25.58	-0.92	25.48	-1.02	24.85	-1.65
500	25.71	-1.59	25.72	-1.58	25.63	-1.67	24.97	-2.33
400	25.83	-2.37	25.84	-2.36	25.75	-2.45	25.11	-3.09
300	25.99	-3.01	26.00	-3.00	25.91	-3.09	25.27	-3.73
200	26.16	-3.84	26.17	-3.83	26.08	-3.92	25.51	-4.49
100	26.41	-5.29	26.42	-5.28	26.34	-5.36	25.90	-5.80
32	26.76	-7.84	26.77	-7.83	26.69	-7.91	26.46	-8.14
8	27.25	-6.75	27.26	-6.74	27.18	-6.82	27.25	-6.75
2	28.28	-3.92	28.29	-3.91	28.22	-3.98	29.03	-3.17
0	29.23	XXXX	29.24	XXXX	29.19	XXXX	30.68	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.74	0.40	12.77	0.43	12.98	0.64	13.47	1.13
900	13.51	0.73	13.54	0.76	13.72	0.94	14.11	1.33
800	14.02	0.56	14.04	0.58	14.21	0.75	14.55	1.09
700	14.46	0.29	14.49	0.32	14.65	0.48	14.99	0.82
600	14.86	-0.06	14.87	-0.05	15.03	0.11	15.39	0.47
500	15.27	-0.25	15.28	-0.24	15.44	-0.08	15.82	0.30
400	15.65	-0.50	15.66	-0.49	15.81	-0.34	16.24	0.09
300	16.09	-0.80	16.11	-0.78	16.25	-0.64	16.74	-0.15
200	16.54	-1.22	16.55	-1.21	16.69	-1.07	17.28	-0.48
100	17.17	-1.71	17.19	-1.69	17.31	-1.57	18.07	-0.81
32	17.91	9.16	17.93	9.18	18.04	9.29	19.13	10.38
8	18.69	10.26	18.71	10.28	18.81	10.38	20.31	11.88
2	20.21	20.21	20.22	20.22	20.28	20.28	22.87	22.87
0	21.62	XXXX	21.62	XXXX	21.65	XXXX	25.24	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	18024	18109	16369	10704
TAPE NO.	316.0	317.0	318.0	322.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.67	1.67	1.67	1.67	1.67	1.67	0.0	0.0
1000	2.75	1.30	2.37	0.92	2.76	1.31	-5.98*	-7.44
900	2.91	1.46	2.79	1.34	2.92	1.46	-5.83*	-7.29
800	2.96	1.38	2.89	1.31	2.96	1.38	-5.76*	-7.34
700	2.96	0.59	2.92	0.55	2.96	0.59	-5.70*	-8.07
600	2.94	0.57	2.91	0.55	2.94	0.57	-5.63*	-8.00
500	2.90	-0.05	2.88	-0.07	2.90	-0.05	-5.58*	-8.53
400	2.84	-0.11	2.82	-0.13	2.83	-0.12	-5.51*	-8.46
300	2.76	-0.80	2.75	-0.81	2.75	-0.81	-5.40*	-8.96
200	2.64	-0.01	2.63	-0.02	2.64	-0.01	-5.24*	-7.89
100	2.45	1.04	2.44	1.03	2.44	1.03	-4.95*	-6.3[illegible]
32	2.12	0.38	2.11	0.38	2.11	0.38	-4.40*	[illegible].14
8	1.72	-0.36	1.72	-0.37	1.72	-0.37	-3.62*	[illegible].7[illegible]

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.51*	-10.97	-0.51*	-10.97	-0.51*	-10.97	10.46	0.0
1000	-3.47*	-4.93	-2.91*	-4.37	-3.39*	-4.85	1.77	0.32
900	-3.14*	-4.60	-2.88*	-4.34	-3.07*	-4.53	2.02	0.57
800	-2.92*	-4.24	-2.77*	-4.09	-2.87*	-4.19	2.13	0.81
700	-2.75*	-4.73	-2.64*	-4.62	-2.70*	-4.68	2.19	0.21
600	-2.60*	-4.58	-2.52*	-4.50	-2.56*	-4.54	2.23	0.25
500	-2.46*	-4.53	-2.[illegible]0*	-4.47	-2.42*	-4.49	2.24	0.18
400	-2.32*	-4.39	-2.28*	-4.35	-2.29*	-4.36	2.24	0.17
300	-2.19*	-4.25	-2.14*	-4.20	-2.16*	-4.22	2.21	0.15
200	-2.03*	-5.18	-2.00*	-5.15	-2.01*	-5.16	2.16	-0.99
100	-1.82*	-5.69	-1.80*	-5.67	-1.80*	-5.67	2.03	-1.84
32	-1.55*	-2.72	-1.52*	-2.69	-1.53*	-2.70	1.79	0.62
8	-1.24	-1.06	-1.22	-1.04	-1.23	-1.05	1.46*	1.64

CASE CPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	316.0		317.0		318.0		322.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.41	1.41	24.41	1.41	24.37	1.37	24.41	1.41
900	24.99	0.99	24.99	0.99	24.92	0.92	24.53	0.53
800	25.24	0.34	25.25	0.35	25.17	0.27	24.63	-0.27
700	25.42	-0.38	25.43	-0.37	25.34	-0.46	24.74	-1.06
600	25.57	-0.93	25.58	-0.92	25.48	-1.02	24.85	-1.65
500	25.71	-1.59	25.72	-1.58	25.63	-1.67	24.97	-2.33
400	25.83	-2.37	25.84	-2.36	25.75	-2.45	25.11	-3.09
300	25.99	-3.01	26.00	-3.00	25.91	-3.09	25.27	-3.73
200	26.16	-3.84	26.17	-3.83	26.08	-3.92	25.51	-4.49
100	26.41	-5.29	26.42	-5.28	26.34	-5.36	25.90	-5.80
32	26.76	-7.84	26.77	-7.83	26.69	-7.91	26.46	-8.14
8	27.25	-6.75	27.26	-6.74	27.18	-6.82	27.25	-6.75
2	28.28	-3.92	28.29	-3.91	28.22	-3.98	29.03	-3.17
0	29.23	XXXX	29.24	XXXX	29.19	XXXX	30.68	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.74	0.40	12.77	0.43	12.98	0.64	13.47	1.13
900	13.51	0.73	13.54	0.76	13.72	0.94	14.11	1.33
800	14.02	0.56	14.04	0.58	14.21	0.75	14.55	1.09
700	14.46	0.29	14.48	0.32	14.63	0.48	14.99	0.82
600	14.86	-0.06	14.87	-0.05	15.03	0.11	15.39	0.47
500	15.27	-0.25	15.28	-0.24	15.44	-0.08	15.82	0.30
400	15.65	-0.50	15.66	-0.49	15.81	-0.34	16.24	0.09
300	16.09	-0.80	16.11	-0.78	16.25	-0.64	16.74	-0.15
200	16.54	-1.22	16.55	-1.21	16.69	-1.07	17.28	-0.48
100	17.17	-1.71	17.19	-1.69	17.31	-1.57	18.07	-0.81
32	17.91	9.16	17.93	9.18	18.04	9.29	19.13	10.38
8	18.69	10.26	18.71	10.28	18.81	10.38	20.31	11.88
2	20.21	20.21	20.22	20.22	20.28	20.28	22.87	22.87
0	21.62	XXXX	21.62	XXXX	21.65	XXXX	25.24	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	316.0		317.0		318.0		322.0	
INTERVAL	6HR		6HR		6HR		6HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	24.55	-28.05	24.56	-28.04	24.55	-28.05	26.79	-25.81
-0.125	23.96	3.17	23.96	3.17	23.96	3.17	25.20	4.41
-0.250	25.28	4.45	25.28	4.45	25.28	4.45	25.55	4.72
-0.500	24.08	4.36	24.08	4.36	24.08	4.36	24.09	4.37
-1.000	20.81	4.25	20.81	4.25	20.81	4.25	20.85	4.29
-2.000	20.62	4.18	20.62	4.18	20.62	4.18	25.88	9.44

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.14	0.04	2.12	0.02	2.12	0.02	3.91	1.81
2	1.03	-0.67	1.02	-0.68	1.02	-0.68	1.88	0.18

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	19.77	0.27	19.78	0.28	19.78	0.28	19.78	0.28
R(N)	11.54	XXXX	11.54	XXXX	11.55	XXXX	11.36	XXXX
Q(C,0)	2.56	XXXX	2.56	XXXX	2.63	XXXX	2.62	XXXX
Q(E,0)	7.64	XXXX	7.64	XXXX	7.58	XXXX	7.62	XXXX
Q(S,0)	1.34	XXXX	1.34	XXXX	1.33	XXXX	1.12	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	8.12	XXXX	8.10	XXXX	8.22	XXXX	8.86	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	12.50	XXXX	12.60	XXXX	12.50	XXXX	16.10	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10704	10694	10694	10704
TAPE NO.	323.0	324.0	325.0	326.0
INTERVAL	6HR	6HR	6HR	6HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.00	-0.00	-0.00	-0.00	0.0	0.0	-0.00	-0.00
1000	-5.07*	-6.53	-5.90*	-7.36	-5.90*	-7.36	-5.14*	-6.60
900	-5.62*	-7.08	-5.77*	-7.23	-5.77*	-7.23	-5.68*	-7.14
800	-5.65*	-7.23	-5.71*	-7.29	-5.71*	-7.29	-5.71*	-7.29
700	-5.63*	-8.00	-5.66*	-8.03	-5.66*	-8.03	-5.68*	-8.05
600	-5.59*	-7.96	-5.61*	-7.98	-5.61*	-7.98	-5.64*	-8.01
500	-5.54*	-8.49	-5.55*	-8.50	-5.55*	-8.50	-5.58*	-8.53
400	-5.47*	-8.42	-5.48*	-8.43	-5.48*	-8.43	-5.51*	-8.46
300	-5.37*	-8.93	-5.38*	-8.94	-5.38*	-8.94	-5.40*	-8.96
200	-5.22*	-7.87	-5.22*	-7.87	-5.22*	-7.87	-5.25*	-7.90
100	-4.93*	-6.34	-4.94*	-6.35	-4.93*	-6.34	-4.95*	-6.36
32	-4.38*	-6.12	-4.38*	-6.12	-4.38*	-6.12	-4.40*	-6.14
8	-3.60*	-5.69	-3.60*	-5.69	-3.60*	-5.69	-3.61*	-5.70

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	10.46	0.0	10.46	0.00	10.46	0.0	10.46	0.00
1000	1.78	0.33	1.79	0.33	1.79	0.34	1.78	0.33
900	2.09	0.64	2.03	0.58	2.04	0.59	2.09	0.64
800	2.20	0.88	2.14	0.82	2.14	0.82	2.20	0.89
700	2.25	0.27	2.20	0.23	2.21	0.23	2.26	0.28
600	2.28	0.31	2.24	0.27	2.24	0.27	2.29	0.31
500	2.28	0.22	2.25	0.18	2.25	0.18	2.29	0.22
400	2.28	0.21	2.25	0.18	2.25	0.18	2.28	0.22
300	2.25	0.19	2.22	0.16	2.23	0.17	2.26	0.20
200	2.19	-0.95	2.16	-0.98	2.17	-0.98	2.20	-0.95
100	2.07	-1.80	2.05	-1.82	2.05	-1.82	2.08	-1.79
32	1.81	0.65	1.80	0.63	1.80	0.64	1.82	0.65
8	1.48*	1.66	1.46*	1.64	1.47*	1.65	1.49*	1.67

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	323.0		324.0		325.0		326.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.35	1.35	24.35	1.35	24.22	1.22	24.28	1.28
900	24.48	0.48	24.48	0.48	24.29	0.29	24.36	0.36
800	24.59	-0.31	24.58	-0.32	24.38	-0.52	24.43	-0.47
700	24.71	-1.09	24.69	-1.11	24.46	-1.34	24.51	-1.29
600	24.81	-1.69	24.80	-1.70	24.56	-1.94	24.61	-1.89
500	24.94	-2.36	24.94	-2.36	24.68	-2.62	24.73	-2.57
400	25.07	-3.13	25.06	-3.14	24.81	-3.39	24.84	-3.36
300	25.24	-3.76	25.25	-3.75	24.97	-4.03	25.01	-3.99
200	25.48	-4.52	25.48	-4.52	25.19	-4.81	25.23	-4.77
100	25.85	-5.85	25.86	-5.84	25.53	-6.17	25.57	-6.13
32	26.44	-8.16	26.43	-8.17	26.07	-8.53	26.13	-8.47
8	27.22	-6.78	27.22	-6.78	26.84	-7.16	26.88	-7.12
2	29.01	-3.19	29.01	-3.19	28.57	-3.63	28.62	-3.58
0	30.66	XXXX	30.66	XXXX	30.17	XXXX	30.21	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	13.43	1.09	13.43	1.09	13.35	1.01	13.40	1.06
900	14.04	1.26	14.05	1.27	13.93	1.15	13.99	1.21
800	14.49	1.03	14.50	1.04	14.36	0.90	14.44	0.98
700	14.92	0.75	14.92	0.75	14.79	0.62	14.86	0.69
600	15.31	0.39	15.32	0.40	15.16	0.24	15.24	0.32
500	15.75	0.23	15.75	0.23	15.57	0.05	15.66	0.14
400	16.16	0.01	16.16	0.01	15.98	-0.17	16.07	-0.08
300	16.66	-0.23	16.67	-0.22	16.46	-0.43	16.54	-0.35
200	17.21	-0.55	17.21	-0.55	16.98	-0.78	17.06	-0.70
100	18.02	-0.86	18.01	-0.87	17.75	-1.13	17.83	-1.05
32	19.06	10.31	19.07	10.32	18.77	10.02	18.85	10.10
8	20.26	11.83	20.25	11.82	19.91	11.48	19.99	11.56
2	22.82	22.82	22.81	22.81	22.37	22.37	22.45	22.45
0	25.18	XXXX	25.18	XXXX	24.64	XXXX	24.71	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	323.0		324.0		325.0		326.0	
INTERVAL	6HR		6HR		6HR		6HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	26.78	-25.82	26.78	-25.82	24.78	-27.82	24.80	-27.80
-0.125	25.21	4.42	25.21	4.42	24.16	3.37	24.16	3.37
-0.250	25.54	4.71	25.55	4.72	25.33	4.50	25.34	4.51
-0.500	24.09	4.37	24.09	4.37	24.06	4.34	24.07	4.35
-1.000	20.85	4.29	20.85	4.29	20.81	4.25	20.79	4.23
-2.000	25.89	9.45	25.89	9.45	20.60	4.16	20.61	4.17

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.90	1.80	3.90	1.80	3.90	1.80	3.92	1.82
2	1.87	0.17	1.87	0.17	1.87	0.17	1.88	0.18

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	19.78	0.28	19.78	0.28	19.77	0.27	19.79	0.29
R(N)	11.36	XXXX	11.36	XXXX	11.38	XXXX	11.39	XXXX
Q(C,0)	2.63	XXXX	2.63	XXXX	2.54	XXXX	2.53	XXXX
Q(E,0)	7.62	XXXX	7.62	XXXX	7.30	XXXX	7.31	XXXX
Q(S,0)	1.11	XXXX	1.11	XXXX	1.54	XXXX	1.55	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	8.82	XXXX	8.82	XXXX	8.82	XXXX	8.86	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	16.00	XXXX	16.00	XXXX	14.60	XXXX	14.70	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10704		10704		10704		10699	
TAPE NO.	327.0		328.0		329.0		330.0	
INTERVAL	6HR		6HR		6HR		6HR	

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.0	0.0	1.67	1.67	1.67	1.67	1.67	1.67
1000	-5.98*	-7.44	2.83	1.37	2.40	0.94	2.82	1.37
900	-5.84*	-7.30	2.89	1.44	2.76	1.31	2.88	1.43
800	-5.77*	-7.35	2.88	1.30	2.82	1.24	2.87	1.30
700	-5.72*	-8.09	2.84	0.47	2.81	0.44	2.84	0.47
600	-5.66*	-8.03	2.80	0.43	2.78	0.41	2.80	0.43
500	-5.60*	-8.55	2.75	-0.20	2.73	-0.22	2.74	-0.21
400	-5.52*	-8.47	2.67	-0.28	2.67	-0.28	2.67	-0.28
300	-5.41*	-8.97	2.59	-0.97	2.59	-0.97	2.59	-0.97
200	-5.25*	-7.90	2.47	-0.18	2.47	-0.18	2.47	-0.18
100	-4.96*	-6.37	2.29	0.88	2.28	0.88	2.28	0.88
32	-4.40*	-6.14	1.98	0.24	1.98	0.24	1.98	0.24
8	-3.62*	-5.71	1.61	-0.48	1.60	-0.48	1.61	-0.48

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	10.46	0.00	-0.51*	-10.97	-0.51*	-10.97	-0.51*	-10.97
1000	1.78	0.33	-3.11*	-4.57	-2.59*	-4.05	-3.18*	-4.64
900	2.03	0.58	-2.74*	-4.20	-2.50*	-3.96	-2.79*	-4.25
800	2.14	0.82	-2.53*	-3.85	-2.38*	-3.70	-2.57*	-3.89
700	2.21	0.23	-2.36*	-4.34	-2.25*	-4.23	-2.40*	-4.38
600	2.25	0.27	-2.22*	-4.20	-2.14*	-4.12	-2.26*	-4.24
500	2.25	0.18	-2.10*	-4.17	-2.03*	-4.10	-2.13*	-4.20
400	2.25	0.18	-1.96*	-4.03	-1.91*	-3.98	-1.99*	-4.06
300	2.23	0.17	-1.84*	-3.90	-1.79*	-3.85	-1.86*	-3.92
200	2.17	-0.98	-1.69*	-4.84	-1.65*	-4.80	-1.71*	-4.86
100	2.05	-1.82	-1.50*	-5.37	-1.47*	-5.34	-1.52*	-5.39
32	1.80	0.64	-1.26*	-2.43	-1.23*	-2.40	-1.28*	-2.45
8	1.47*	1.65	-1.01	-0.83	-0.99	-0.81	-1.02	-0.84

CASE CPC 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	327.0		328.0		329.0		330.0	
INTERVAL	6HR		6HR		6HR		6HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	24.30	1.30	24.23	1.23	24.23	1.23	24.29	1.29
900	24.36	0.36	24.31	0.31	24.31	0.31	24.37	0.37
800	24.43	-0.47	24.38	-0.52	24.38	-0.52	24.46	-0.44
700	24.52	-1.28	24.47	-1.33	24.47	-1.33	24.56	-1.24
600	24.61	-1.39	24.56	-1.94	24.57	-1.93	24.65	-1.85
500	24.73	-2.57	24.69	-2.61	24.68	-2.62	24.77	-2.53
400	24.84	-3.36	24.81	-3.39	24.81	-3.39	24.90	-3.30
300	25.02	-3.98	24.97	-4.03	24.97	-4.03	25.05	-3.95
200	25.22	-4.78	25.18	-4.82	25.21	-4.79	25.28	-4.72
100	25.58	-6.12	25.55	-6.15	25.54	-6.16	25.63	-6.07
32	26.13	-8.47	26.09	-8.51	26.11	-8.49	26.17	-8.43
8	26.90	-7.10	26.86	-7.14	26.86	-7.14	26.92	-7.08
2	28.62	-3.58	28.54	-3.66	28.54	-3.66	28.57	-3.63
0	30.21	XXXX	30.17	XXXX	30.18	XXXX	30.18	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	13.39	1.05	13.36	1.02	13.36	1.02	13.15	0.81
900	13.99	1.21	13.94	1.16	13.93	1.15	13.76	0.98
800	14.43	0.97	14.37	0.91	14.37	0.91	14.20	0.74
700	14.85	0.68	14.77	0.60	14.79	0.62	14.63	0.46
600	15.23	0.31	15.16	0.24	15.16	0.24	15.02	0.10
500	15.65	0.13	15.58	0.06	15.58	0.06	15.44	-0.08
400	16.06	-0.09	15.98	-0.17	15.98	-0.17	15.86	-0.29
300	16.54	-0.35	16.46	-0.43	16.47	-0.42	16.34	-0.55
200	17.07	-0.69	17.00	-0.76	16.98	-0.78	16.86	-0.90
100	17.83	-1.05	17.76	-1.12	17.76	-1.12	17.65	-1.23
32	18.84	10.09	18.76	10.03	18.76	10.03	18.66	9.91
8	19.99	11.56	19.92	11.49	19.92	11.49	19.81	11.38
2	22.45	22.45	22.32	22.32	22.32	22.32	22.22	22.22
0	24.72	XXXX	24.65	XXXX	24.66	XXXX	24.57	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	327.0	328.0	329.0	330.0
INTERVAL	6HR	6HR	6HR	6HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	24.80	-27.80	24.79	-27.81	24.79	-27.81	24.79	-27.81
-0.125	24.17	3.38	24.17	3.38	24.17	3.38	24.17	3.38
-0.250	25.33	4.50	25.33	4.50	25.33	4.50	25.33	4.50
-0.500	24.07	4.35	24.07	4.35	24.08	4.36	24.08	4.36
-1.000	20.81	4.25	20.81	4.25	20.81	4.25	20.81	4.25
-2.000	20.61	4.17	20.60	4.16	20.60	4.16	20.61	4.17

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.91	1.81	1.90	-0.20	1.89	-0.21	1.91	-0.19
2	1.87	0.17	0.94	-0.76	0.93	-0.77	0.94	-0.76

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	19.80	0.30	19.79	0.29	19.79	0.29	19.79	0.29
R(N)	11.40	XXXX	11.39	XXXX	11.40	XXXX	11.40	XXXX
G(C,0)	2.54	XXXX	2.54	XXXX	2.54	XXXX	2.50	XXXX
G(E,0)	7.32	XXXX	7.32	XXXX	7.32	XXXX	7.36	XXXX
G(S,0)	1.55	XXXX	1.54	XXXX	1.54	XXXX	1.55	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	8.80	XXXX	4.30	XXXX	4.26	XXXX	4.30	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	14.70	XXXX	14.70	XXXX	14.70	XXXX	14.70	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1384	1404	1379	1909
TAPE NO.	332.0	333.0	334.0	335.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.39	0.02	-8.39	0.02	-8.39	0.02	1.66*	10.07
1000	0.01	-4.61	-1.61*	-6.24	0.02	-4.60	4.24	-0.39
900	0.04	-3.54	0.01	-3.58	0.04	-3.54	4.24	0.66
800	0.07	-2.97	0.07	-2.97	0.07	-2.97	4.26	1.22
700	0.05	-3.32	0.04	-3.33	0.06	-3.32	4.25	0.88
600	0.07	-3.30	0.07	-3.30	0.06	-3.30	4.26	0.89
500	0.05	-3.58	0.05	-3.58	0.05	-3.58	4.23	0.60
400	-0.02*	-3.27	-0.02*	-3.27	-0.01*	-3.26	4.14	0.89
300	-0.26*	-1.46	-0.26*	-1.46	-0.26*	-1.46	3.90	2.70
200	-0.69	-0.38	-0.70	-0.39	-0.69	-0.38	3.50*	3.81
100	-1.04	-0.17	-1.04	-0.17	-1.05	-0.18	3.02*	3.89
32	-2.73	-1.86	-2.74	-1.87	-2.73	-1.86	1.53*	2.40
8	-3.02	-2.32	-3.02	-2.32	-3.02	-2.32	0.88*	1.57

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	10.01	-0.01	10.01	-0.01	10.01	-0.01	-0.50*	-10.52
1000	-2.26	-2.26	-1.80	-1.80	-2.24	-2.24	0.23	0.23
900	-2.22*	-2.53	-2.21*	-2.52	-2.21*	-2.52	0.27	-0.04
800	-2.23*	-2.77	-2.22*	-2.76	-2.21*	-2.75	0.27	-0.27
700	-2.18*	-3.41	-2.18*	-3.41	-2.17*	-3.40	0.30	-0.92
600	-2.16*	-4.52	-2.16*	-4.52	-2.15*	-4.51	0.33	-2.02
500	-2.13*	-5.77	-2.13*	-5.77	-2.10*	-5.74	0.37	-3.27
400	-2.01*	-6.65	-2.01*	-6.65	-2.01*	-6.65	0.50	-4.13
300	-1.74*	-6.21	-1.74*	-6.21	-1.74*	-6.21	0.80	-3.66
200	-1.06*	-4.65	-1.07*	-4.66	-1.06*	-4.65	1.47	-2.11
100	0.30	-1.57	0.29	-1.57	0.29	-1.57	2.74	0.87
32	1.81	-0.85	1.81	-0.85	1.81	-0.85	3.96	1.30
8	1.86	0.20	1.85	0.19	1.85	0.19	3.72	2.06

CASE UPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	332.0		333.0		334.0		335.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.65	1.05	22.65	1.05	22.64	1.04	22.65	1.05
900	23.29	0.89	23.29	0.89	23.28	0.88	23.31	0.91
800	24.01	0.71	24.02	0.72	23.99	0.69	24.03	0.73
700	24.62	0.12	24.62	0.12	24.59	0.09	24.64	0.14
600	25.21	-0.49	25.21	-0.49	25.18	-0.52	25.22	-0.48
500	25.79	-0.31	25.79	-0.31	25.76	-0.34	25.78	-0.32
400	26.25	-0.05	26.25	-0.05	26.22	-0.08	26.19	-0.11
300	26.51	-0.39	26.51	-0.39	26.48	-0.42	26.42	-0.48
200	26.35	0.95	26.35	0.95	26.32	0.92	26.25	0.85
100	25.65	2.05	25.64	2.04	25.62	2.02	25.61	2.01
32	24.47	-0.23	24.47	-0.23	24.46	-0.24	24.47	-0.23
8	23.27	-1.23	23.27	-1.23	23.27	-1.23	23.36	-1.14
2	21.69	-2.21	21.70	-2.20	21.69	-2.21	21.72	-2.18
0	20.07	XXXX	20.08	XXXX	20.06	XXXX	20.02	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.72	0.87	11.74	0.89	11.76	0.91	11.73	0.88
900	12.19	0.95	12.20	0.96	12.22	0.98	12.21	0.97
800	12.78	1.27	12.79	1.28	12.81	1.30	12.81	1.30
700	13.45	1.18	13.46	1.19	13.47	1.20	13.41	1.14
600	13.72	0.64	13.72	0.64	13.73	0.65	13.73	0.65
500	14.12	0.74	14.12	0.74	14.13	0.75	14.12	0.74
400	14.53	0.83	14.54	0.84	14.54	0.84	14.51	0.81
300	14.99	0.98	14.97	0.96	14.99	0.98	14.92	0.91
200	15.29	3.02	15.30	3.03	15.29	3.02	15.22	2.95
100	15.42	5.79	15.42	5.79	15.43	5.80	15.39	5.76
32	15.27	8.30	15.27	8.30	15.28	8.31	15.43	8.46
8	15.92	8.82	15.91	8.81	15.91	8.81	16.10	9.00
2	18.41	18.41	18.40	18.40	18.41	18.41	18.23	18.23
0	20.96	XXXX	20.96	XXXX	20.98	XXXX	20.42	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	332.0		333.0		334.0		335.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	16.93	-0.57	16.92	-0.58	16.93	-0.57	16.93	-0.57
-0.125	24.38	1.88	24.38	1.88	24.38	1.88	24.38	1.88
-0.250	25.82	2.88	25.81	2.87	25.81	2.87	25.82	2.88
-0.500	24.14	2.75	24.13	2.74	24.13	2.74	24.13	2.74
-1.000	20.76	2.59	20.75	2.58	20.76	2.59	20.75	2.58
-2.000	20.61	2.61	20.61	2.61	20.61	2.61	20.61	2.61

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.56	1.76	3.[illegible]	1.76	3.55	1.75	3.84	2.04
2	1.80	0.60	1.8	0.60	1.80	0.60	1.95	0.75

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.20	0.20	5.20	0.20	5.22	0.22	5.20	0.20
R(N)	1.59	XXXX	1.58	XXXX	1.59	XXXX	1.60	XXXX
Q(C,0)	-0.31	XXXX	-0.30	XXXX	-0.30	XXXX	-0.44	XXXX
Q(E,0)	1.01	XXXX	1.01	XXXX	1.01	XXXX	1.17	XXXX
Q(S,0)	0.90	XXXX	0.91	XXXX	0.90	XXXX	0.89	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	1.02	XXXX	1.04	XXXX	1.02	XXXX	1.52	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.40	XXXX	0.40	XXXX	0.30	XXXX	0.40	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	1914	1914	2314	2319
TAPE NO.	336.0	337.0	338.0	339.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.67*	10.08	1.67*	10.08	1.66*	10.07	1.67*	10.08
1000	3.67	-0.96	4.22	-0.40	4.23	-0.40	3.67	-0.96
900	4.22	0.64	4.24	0.65	4.24	0.65	4.22	0.64
800	4.26	1.22	4.26	1.22	4.26	1.22	4.26	1.22
700	4.25	0.88	4.25	0.87	4.24	0.87	4.25	0.88
600	4.26	0.89	4.25	0.88	4.25	0.88	4.25	0.88
500	4.24	0.60	4.23	0.59	4.20	0.57	4.21	0.57
400	4.14	0.89	4.13	0.88	4.09	0.84	4.09	0.84
300	3.90	2.70	3.90	2.70	3.85	2.65	3.86	2.66
200	3.50*	3.81	3.50*	3.81	3.49*	3.80	3.49*	3.80
100	3.02*	3.89	3.02*	3.89	2.91*	3.78	2.91*	3.78
32	1.54*	2.41	1.54*	2.41	1.81*	2.68	1.81*	2.68
8	0.87*	1.57	0.87*	1.57	1.24*	1.94	1.24*	1.94

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.50*	-10.52	-0.51*	-10.53	-0.51*	-10.53	-0.50*	-10.52
1000	0.41	0.41	0.24	0.24	0.24	0.24	0.41	0.41
[illegible]	0.27	-0.03	0.27	-0.03	0.27	-0.03	0.27	-0.03
800	0.27	-0.26	0.27	-0.26	0.27	-0.26	0.27	-0.27
700	0.30	-0.92	0.31	-0.91	0.31	-0.92	0.30	-0.92
600	0.33	-2.03	0.34	-2.02	0.35	-2.01	0.34	-2.01
500	0.38	-3.26	0.38	-3.26	0.40	-3.23	0.40	-3.23
400	0.50	-4.13	0.51	-4.13	0.57	-4.07	0.56	-4.07
300	0.80	-3.66	0.81	-3.66	0.91	-3.56	0.91	-3.56
200	1.47	-2.11	1.48	-2.11	1.56	-2.03	1.55	-2.03
100	2.74	0.88	2.74	0.87	2.63	0.76	2.63	0.76
32	3.96	1.30	3.96	1.30	3.52	0.86	3.52	0.86
8	3.73	2.07	3.72	2.06	3.24	1.59	3.24	1.59

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	336.0		337.0		338.0		339.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.65	1.05	22.65	1.05	22.66	1.06	22.67	1.07
900	23.31	0.91	23.31	0.91	23.36	0.96	23.36	0.96
800	24.03	0.73	24.01	0.71	24.06	0.76	24.08	0.78
700	24.64	0.14	24.63	0.13	24.68	0.18	24.69	0.19
600	25.22	-0.48	25.21	-0.49	25.23	-0.47	25.25	-0.45
500	25.78	-0.32	25.76	-0.34	25.74	-0.36	25.75	-0.35
400	26.19	-0.11	26.17	-0.13	26.08	-0.22	26.10	-0.20
300	26.41	-0.49	26.38	-0.52	26.23	-0.67	26.26	-0.64
200	26.26	0.86	26.23	0.83	26.09	0.69	26.11	0.71
100	25.61	2.01	25.58	1.98	25.54	1.94	25.55	1.95
32	24.40	-0.30	24.47	-0.23	24.60	-0.10	24.60	-0.10
8	23.37	-1.13	23.36	-1.14	23.81	-0.69	23.81	-0.69
2	21.72	-2.18	21.70	-2.20	22.66	-1.24	22.65	-1.25
0	20.01	XXXX	19.99	XXXX	21.46	XXXX	21.45	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.74	0.89	11.77	0.92	11.78	0.93	11.74	0.89
900	12.21	0.97	12.24	1.00	12.28	1.04	12.25	1.01
800	12.80	1.29	12.83	1.32	12.87	1.36	12.84	1.33
700	13.42	1.15	13.44	1.17	13.41	1.14	13.39	1.12
600	13.72	0.64	13.75	0.67	13.78	0.70	13.75	0.67
500	14.12	0.74	14.15	0.77	14.18	0.80	14.15	0.77
400	14.51	0.81	14.54	0.84	14.53	0.83	14.51	0.81
300	14.91	0.90	14.94	0.93	14.91	0.90	14.90	0.89
200	15.22	2.95	15.24	2.97	15.19	2.92	15.16	2.89
100	15.39	5.76	15.41	5.78	15.44	5.81	15.43	5.80
32	15.43	8.46	15.44	8.47	15.82	8.85	15.82	8.85
8	16.09	8.99	16.10	9.00	16.74	9.64	16.74	9.64
2	18.23	18.23	18.23	18.23	19.13	19.13	19.12	19.12
0	20.43	XXXX	20.42	XXXX	21.62	XXXX	21.61	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	336.0		337.0		338.0		339.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	16.93	-0.57	16.93	-0.57	20.66	3.16	20.67	3.17
-0.125	24.37	1.87	24.37	1.87	25.01	2.51	25.01	2.51
-0.250	25.81	2.87	25.81	2.87	25.85	2.91	25.85	2.91
-0.500	24.13	2.74	24.13	2.74	24.13	2.74	24.13	2.74
-1.000	20.75	2.58	20.76	2.59	20.77	2.60	20.77	2.60
-2.000	20.61	2.61	20.61	2.61	25.89	7.89	25.88	7.88

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.84	2.04	3.83	2.03	3.47	1.67	3.47	1.67
2	1.95	0.75	1.95	0.75	1.77	0.57	1.77	0.57

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	5.20	0.20	5.19	0.19	5.20	0.20	5.00	0.00
R(N)	1.60	XXXX	1.60	XXXX	1.45	XXXX	1.45	XXXX
Q(C,0)	-0.44	XXXX	-0.44	XXXX	-0.38	XXXX	-0.38	XXXX
Q(E,0)	1.17	XXXX	1.17	XXXX	1.61	XXXX	1.61	XXXX
Q(S,0)	0.89	XXXX	0.89	XXXX	0.23	XXXX	0.23	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	1.54	XXXX	1.52	XXXX	1.70	XXXX	1.68	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.40	XXXX	0.40	XXXX	0.70	XXXX	0.70	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

KICM SQ/SEC)	2304	10694	10694	10694
TAPE NO.	340.0	341.0	342.0	343.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.67*	10.08	-8.39	0.02	-8.39	0.02	-8.39	0.02
1000	4.23	-0.39	0.0	-4.63	-1.29*	-5.92	0.0	-4.63
900	4.24	0.65	-0.08*	-3.67	-0.31*	-3.90	-0.07*	-3.66
800	4.27	1.23	-0.19*	-3.23	-0.26*	-3.30	-0.19*	-3.23
700	4.25	0.88	-0.29*	-3.67	-0.32*	-3.70	-0.28*	-3.66
600	4.25	0.88	-0.39*	-3.76	-0.40*	-3.77	-0.39*	-3.76
500	4.21	0.57	-0.48*	-4.12	-0.48*	-4.12	-0.48*	-4.12
400	4.09	0.84	-0.57*	-3.82	-0.57*	-3.82	-0.57*	-3.82
300	3.86	2.66	-0.65*	-1.85	-0.65*	-1.85	-0.65*	-1.85
200	3.49*	3.80	-0.74	-0.43	-0.74	-0.43	-0.74	-0.43
100	2.92*	3.79	-0.80	0.07	-0.80	0.07	-0.80	0.07
32	1.81*	2.68	-0.80	0.07	-0.81	0.06	-0.81	0.06
8	1.24*	1.94	-0.70	-0.00	-0.70	-0.00	-0.70	-0.00

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.51*	-10.53	10.01	-0.01	10.01	-0.01	10.01	-0.01
1000	0.23	0.23	-2.21	-2.21	-1.87	-1.87	-2.20	-2.20
900	0.27	-0.03	-2.06*	-2.37	-1.96*	-2.27	-2.04*	-2.35
800	0.27	-0.27	-1.92*	-2.46	-1.88*	-2.42	-1.91*	-2.45
700	0.30	-0.92	-1.79*	-3.02	-1.77*	-3.00	-1.79*	-3.02
600	0.34	-2.01	-1.70*	-4.06	-1.68*	-4.04	-1.69*	-4.05
500	0.40	-3.23	-1.60*	-5.24	-1.59*	-5.23	-1.60*	-5.24
400	0.57	-4.07	-1.52*	-6.16	-1.52*	-6.16	-1.52*	-6.16
300	0.91	-3.56	-1.45*	-5.92	-1.44*	-5.91	-1.44*	-5.91
200	1.55	-2.03	-1.37*	-4.96	-1.37*	-4.96	-1.37*	-4.96
100	2.63	0.76	-1.28*	-3.15	-1.28*	-3.15	-1.28*	-3.15
32	3.52	0.86	-1.14*	-3.80	-1.15*	-3.81	-1.15*	-3.81
8	3.24	1.58	-0.96*	-2.62	-0.95*	-2.61	-0.95*	-2.61

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	340.0		341.0		342.0		343.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.67	1.07	23.61	2.01	23.59	1.99	23.61	2.01
900	23.36	0.96	24.31	1.91	24.31	1.91	24.29	1.89
800	24.07	0.77	24.53	1.23	24.52	1.22	24.51	1.21
700	24.69	0.19	24.62	0.12	24.59	0.09	24.59	0.09
600	25.25	-0.45	24.61	-1.09	24.59	-1.11	24.59	-1.11
500	25.75	-0.35	24.59	-1.51	24.56	-1.54	24.56	-1.54
400	26.09	-0.21	24.51	-1.79	24.48	-1.82	24.48	-1.82
300	26.26	-0.64	24.39	-2.51	24.36	-2.54	24.37	-2.53
200	26.11	0.71	24.22	-1.18	24.19	-1.21	24.19	-1.21
100	25.55	1.95	23.96	0.36	23.94	0.34	23.94	0.34
32	24.60	-0.10	23.51	-1.19	23.48	-1.22	23.48	-1.22
8	23.82	-0.68	23.14	-1.36	23.12	-1.38	23.13	-1.37
2	22.65	-1.25	22.29	-1.61	22.28	-1.62	22.28	-1.62
0	21.44	XXXX	21.42	XXXX	21.41	XXXX	21.41	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.74	0.89	12.35	1.50	12.38	1.53	12.38	1.53
900	12.24	1.00	12.99	1.75	12.99	1.75	13.00	1.76
800	12.84	1.33	13.36	1.85	13.38	1.87	13.38	1.87
700	13.39	1.12	13.71	1.44	13.71	1.44	13.72	1.45
600	13.75	0.67	13.98	0.90	13.99	0.91	13.98	0.90
500	14.14	0.76	14.29	0.91	14.30	0.92	14.29	0.91
400	14.50	0.80	14.56	0.86	14.55	0.85	14.55	0.85
300	14.87	0.86	14.86	0.85	14.87	0.86	14.86	0.85
200	15.16	2.89	15.16	2.89	15.16	2.89	15.17	2.90
100	15.43	5.80	15.57	5.94	15.57	5.94	15.57	5.94
32	15.82	8.85	16.03	9.06	16.03	9.06	16.03	9.06
8	16.74	9.64	16.51	9.41	16.50	9.40	16.51	9.41
2	19.13	19.13	17.42	17.42	17.42	17.42	17.42	17.42
0	21.62	XXXX	18.36	XXXX	18.36	XXXX	18.36	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	340.0		341.0		342.0		343.0	
INTERVAL	2HR		2HR		2HR		2HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	20.66	3.16	22.08	4.58	22.07	4.57	22.07	4.57
-0.125	25.01	2.51	25.27	2.77	25.26	2.76	25.26	2.76
-0.250	25.85	2.91	25.86	2.92	25.86	2.92	25.86	2.92
-0.500	24.13	2.74	24.13	2.74	24.13	2.74	24.13	2.74
-1.000	20.77	2.60	20.77	2.60	20.77	2.60	20.77	2.60
-2.000	25.89	7.89	25.88	7.88	25.88	7.88	25.88	7.88

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	3.47	1.67	1.21	-0.59	1.21	-0.59	1.21	-0.59
2	1.77	0.57	0.61	-0.59	0.61	-0.59	0.61	-0.5

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.20	0.20	5.19	0.19	5.20	0.20	5.19	0.19
R(N)	1.45	XXXX	1.39	XXXX	1.40	XXXX	1.40	XXXX
Q(C,0)	-0.38	XXXX	-1.29	XXXX	-1.29	XXXX	-1.29	XXXX
Q(E,0)	1.62	XXXX	2.89	XXXX	2.89	XXXX	2.88	XXXX
Q(S,0)	0.23	XXXX	-0.18	XXXX	-0.18	XXXX	-0.18	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	1.68	XXXX	2.68	XXXX	2.70	XXXX	2.68	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.70	XXXX	2.70	XXXX	2.70	XXXX	2.60	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10694	10694	10694	10704
TAPE NO.	344.0	345.0	346.0	347.0
INTERVAL	2HR	2HR	2HR	2HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-8.39	0.02	-8.39	0.02	-8.39	0.02	1.67*	10.08
1000	0.0	-4.63	-1.31*	-5.94	0.0	-4.63	4.20	-0.42
900	-0.07*	-3.66	-0.32*	-3.91	-0.08*	-3.67	4.10	0.52
800	-0.19*	-3.23	-0.28*	-3.32	-0.19*	-3.23	3.99	0.95
700	-0.28*	-3.66	-0.33*	-3.71	-0.29*	-3.67	3.87	0.50
600	-0.39*	-3.76	-0.41*	-3.78	-0.39*	-3.76	3.76	0.39
500	-0.47*	-4.11	-0.49*	-4.13	-0.48*	-4.12	3.64	0.0
400	-0.57*	-3.82	-0.58*	-3.83	-0.57*	-3.82	3.52	0.27
300	-0.65*	-1.85	-0.65*	-1.85	-0.65*	-1.85	3.38	2.18
200	-0.74	-0.43	-0.74	-0.43	-0.74	-0.43	3.19*	3.50
100	-0.81	0.06	-0.81	0.06	-0.80	0.07	2.93*	3.80
32	-0.81	0.06	-0.81	0.06	-0.81	0.06	2.53*	3.40
8	-0.70	-0.00	-0.70	-0.00	-0.70	-0.00	2.05*	2.75

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	10.01	-0.01	10.01	-0.01	10.01	-0.01	-0.51*	-10.53
1000	-2.20	-2.20	-1.89	-1.89	-2.21	-2.21	0.28	0.28
900	-2.04*	-2.35	-1.97*	-2.28	-2.06*	-2.37	0.44	0.14
800	-1.91*	-2.45	-1.89*	-2.43	-1.92*	-2.46	0.57	0.03
700	-1.79*	-3.02	-1.78*	-3.01	-1.80*	-3.03	0.69	-0.53
600	-1.69*	-4.05	-1.69*	-4.05	-1.70*	-4.06	0.79	-1.57
500	-1.60*	-5.24	-1.60*	-5.24	-1.61*	-5.25	0.86	-2.77
400	-1.52*	-6.16	-1.53*	-6.17	-1.53*	-6.17	0.93	-3.71
300	-1.44*	-5.91	-1.45*	-5.92	-1.45*	-5.92	0.99	-3.47
200	-1.37*	-4.96	-1.37*	-4.96	-1.38*	-4.97	1.00	-2.59
100	-1.29*	-3.16	-1.28*	-3.15	-1.29*	-3.16	0.99	-0.88
32	-1.15*	-3.81	-1.15*	-3.81	-1.15*	-3.81	0.90	-1.76
8	-0.95*	-2.61	-0.95*	-2.61	-0.95*	-2.61	0.75	-0.91

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	344.0		345.0		346.0		347.0	
INTERVAL	2HR		2HR		2HR		2HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	23.59	1.99	23.60	2.00	23.60	2.00	23.59	1.99
900	24.26	1.86	24.28	1.88	24.28	1.88	24.26	1.86
800	24.46	1.16	24.48	1.18	24.47	1.17	24.45	1.15
700	24.51	0.01	24.54	0.04	24.53	0.03	24.51	0.01
600	24.47	-1.23	24.50	-1.20	24.50	-1.20	24.48	-1.22
500	24.43	-1.67	24.45	-1.65	24.45	-1.65	24.43	-1.67
400	24.31	-1.99	24.32	-1.98	24.32	-1.98	24.31	-1.99
300	24.16	-2.74	24.19	-2.71	24.19	-2.71	24.16	-2.74
200	23.94	-1.46	23.97	-1.43	23.96	-1.44	23.94	-1.46
100	23.63	0.03	23.65	0.05	23.65	0.05	23.63	0.03
32	23.08	-1.62	23.10	-1.60	23.10	-1.60	23.08	-1.62
8	22.62	-1.88	22.63	-1.87	22.64	-1.86	22.61	-1.89
2	21.56	-2.34	21.57	-2.33	21.57	-2.33	21.57	-2.33
0	20.47	XXXX	20.49	XXXX	20.47	XXXX	20.47	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.37	1.52	12.36	1.51	12.34	1.49	12.37	1.52
900	12.99	1.75	12.99	1.75	12.99	1.75	12.99	1.75
800	13.36	1.85	13.35	1.84	13.33	1.82	13.35	1.84
700	13.69	1.42	13.67	1.40	13.66	1.39	13.68	1.41
600	13.94	0.86	13.93	0.85	13.93	0.85	13.94	0.86
500	14.24	0.86	14.24	0.86	14.23	0.85	14.24	0.86
400	14.48	0.78	14.48	0.78	14.47	0.77	14.49	0.79
300	14.77	0.76	14.78	0.77	14.77	0.76	14.77	0.76
200	15.05	2.78	15.05	2.78	15.04	2.77	15.05	2.78
100	15.43	5.80	15.44	5.81	15.43	5.80	15.43	5.80
32	15.83	8.86	15.84	8.87	15.84	8.87	15.84	8.87
8	16.25	9.15	16.25	9.15	16.25	9.15	16.25	9.15
2	17.05	17.05	17.05	17.05	17.05	17.05	17.03	17.03
0	17.86	XXXX	17.86	XXXX	17.86	XXXX	17.85	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO	344.0	345.0	346.0	347.0
INTERV	2HR	2HR	2HR	2HR

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	18.34	0.84	18.34	0.84	18.34	0.84	18.34	0.84
-0.125	24.55	2.05	24.55	2.05	24.55	2.05	24.55	2.05
-0.250	25.83	2.89	25.81	2.87	25.82	2.88	25.81	2.87
-0.500	24.13	2.74	24.13	2.74	24.13	2.74	24.14	2.75
-1.000	20.76	2.59	20.75	2.58	20.76	2.59	20.76	2.59
-2.000	20.61	2.61	20.61	2.61	20.61	2.61	20.61	2.61

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	1.21	-0.59	1.21	-0.59	1.21	-0.59	2.19	0.39
2	0.61	-0.59	0.61	-0.59	0.61	-0.59	1.12	-0.08

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	5.20	0.20	5.20	0.20	5.01	0.01	5.21	0.21
R(N)	1.47	XXXX	1.46	XXXX	1.47	XXXX	1.47	XXXX
Q(C,0)	-1.61	XXXX	-1.63	XXXX	-1.61	XXXX	-1.61	XXXX
Q(E,0)	2.49	XXXX	2.49	XXXX	2.49	XXXX	2.49	XXXX
Q(S,0)	0.61	XXXX	0.62	XXXX	0.62	XXXX	0.62	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	2.70	XXXX	2.70	XXXX	2.70	XXXX	4.94	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	2.20	XXXX	2.30	XXXX	2.20	XXXX	2.20	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10694	10699	644	664
TAPE NO.	348.0	349.0	351.0	352.0
INTERVAL	2HR	2HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.67*	10.08	1.67*	10.08	-10.41	0.01	-10.41	0.01
1000	3.76	-0.87	4.21	-0.42	1.95	-1.64	0.79	-2.80
900	4.02	0.43	4.11	0.52	1.96	-2.02	1.95	-2.02
800	3.96	0.92	3.99	0.95	1.98	-1.89	1.97	-1.90
700	3.86	0.48	3.88	0.50	1.95	-1.30	1.95	-1.30
600	3.75	0.38	3.77	0.40	1.97	-0.56	1.97	-0.56
500	3.64	0.01	3.65	0.02	1.97*	3.03	1.96*	3.02
400	3.51	0.26	3.52	0.27	1.95	0.41	1.95	0.41
300	3.37	2.18	3.38	2.18	1.78	0.73	1.78	0.72
200	3.19*	3.50	3.19*	3.50	0.67	-2.23	0.66	-2.23
100	2.93*	3.80	2.94*	3.81	0.93	-1.97	0.93	-1.97
32	2.53*	3.40	2.53*	3.40	-3.33	-2.75	-3.33	-2.75
8	2.05*	2.75	2.05*	2.75	-4.33*	-4.78	-4.33*	-4.78

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.51*	-10.53	-0.51*	-10.53	8.75	0.01	8.75	0.01
1000	0.41	0.41	0.28	0.28	-0.59	-0.59	-0.44	-0.44
900	0.47	0.17	0.43	0.13	-0.57*	-1.64	-0.57*	-1.64
800	0.59	0.05	0.56	0.02	-0.57*	-1.98	-0.57*	-1.98
700	0.69	-0.53	0.69	-0.53	-0.55*	-2.07	-0.55*	-2.07
600	0.79	-1.56	0.78	-1.57	-0.54*	-2.31	-0.54*	-2.31
500	0.86	-2.77	0.86	-2.77	-0.54*	-3.44	-0.54*	-3.44
400	0.93	-3.71	0.93	-3.71	-0.49*	-3.16	-0.49*	-3.16
300	0.99	-3.47	0.98	-3.49	-0.47*	-3.37	-0.48*	-3.38
200	1.00	-2.59	1.00	-2.59	-0.21*	-1.27	-0.21*	-1.27
100	1.00	-0.87	1.00	-0.87	1.57*	2.63	1.57*	2.63
32	0.91	-1.75	0.91	-1.74	2.84	-1.32	2.84	-1.32
8	0.76	-0.90	0.75	-0.91	2.49	-0.37	2.48	-0.38

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	348.0		349.0		351.0		352.0	
INTERVAL	2HR		2HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	23.59	1.99	23.59	1.99	22.58	-0.52	22.58	-0.52
900	24.27	1.87	24.27	1.87	23.15	-0.85	23.15	-0.85
800	24.45	1.15	24.47	1.17	23.90	-1.00	23.90	-1.00
700	24.51	0.01	24.52	0.02	24.43	-1.07	24.44	-1.06
600	24.48	-1.22	24.49	-1.21	25.07	-1.03	25.07	-1.03
500	24.42	-1.68	24.44	-1.66	25.[illegible]	-1.08	25.72	-1.08
400	24.29	-2.01	24.32	-1.98	26.26	-0.94	26.25	-0.95
300	24.16	-2.74	24.17	-2.73	26.83	-0.97	26.83	-0.97
200	23.94	-1.46	23.96	-1.44	26.59	-0.41	26.61	-0.39
100	23.63	0.03	23.64	0.04	25.59	0.69	25.59	0.69
32	23.08	-1.62	23.09	-1.61	24.73	1.13	24.72	1.12
8	22.62	-1.88	22.62	-1.88	22.21	0.21	22.21	0.21
2	21.57	-2.33	21.58	-2.32	18.07	-2.83	18.09	-2.81
0	20.47	XXXX	20.49	XXXX	13.88	XXXX	13.92	XXXX

VAPOR PRESSURE (MB)

LEVEL(MB)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.38	1.53	12.35	1.50	11.72	-0.06	11.73	-0.05
900	12.99	1.75	12.97	1.73	12.15	0.02	12.16	0.03
800	13.35	1.84	13.33	1.82	12.64	0.01	12.63	0.0
700	13.69	1.42	13.65	1.38	13.75	0.67	13.74	0.66
600	13.95	0.87	13.93	0.85	13.55	0.17	13.55	0.17
500	14.24	0.86	14.22	0.84	14.02	0.25	14.03	0.26
400	14.49	0.79	14.46	0.76	14.61	0.52	14.61	0.52
300	14.77	0.76	14.75	0.74	15.02	0.52	15.02	0.52
200	15.05	2.78	15.04	2.77	15.54	2.46	15.55	2.47
100	15.43	5.80	15.42	5.79	15.78	5.80	15.79	5.81
32	15.84	8.87	15.82	8.85	14.63	7.92	14.63	7.92
8	16.25	9.15	16.24	9.14	13.72	7.05	13.72	7.05
2	17.03	17.03	17.02	17.02	14.58	14.58	14.[illegible]	14.60
0	17.85	XXXX	17.84	XXXX	15.45	XXXX	15.[illegible]	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	348.0		349.0		351.0		352.0	
INTERVAL	2HR		2HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	18.34	0.64	18.35	0.85	15.23	-3.77	15.23	-3.77
-0.125	24.55	2.05	24.55	2.05	25.02	1.41	25.03	1.42
-0.250	25.82	2.88	25.82	2.88	25.93	1.99	25.94	2.00
-0.500	24.14	2.75	24.12	2.73	24.14	1.92	24.14	1.92
-1.000	20.76	2.59	20.76	2.59	20.75	1.75	20.75	1.75
-2.000	20.61	2.61	20.61	2.[illegible]	20.61	1.83	20.61	1.83

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	2.19	0.39	2.19	0.39	5.00	2.10	5.00	2.10
2	1.12	-0.08	1.12	-0.08	2.52	0.82	2.52	0.82

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	5.20	0.20	5.20	0.20	1.25	0.35	1.29	0.39
R(N)	1.47	XXXX	1.48	XXXX	-0.60	XXXX	-0.59	XXXX
Q(C,0)	-1.61	XXXX	-1.62	XXXX	-0.37	XXXX	-0.37	XXXX
Q(E,0)	2.49	XXXX	2.50	XXXX	0.16	XXXX	0.16	XXXX
Q(S,0)	0.62	XXXX	0.62	XXXX	-0.38	XXXX	-0.37	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	4.94	XXXX	4.94	XXXX	0.68	XXXX	0.68	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	2.20	XXXX	2.20	XXXX	0.10	XXXX	0.10	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	664	704	704	699
TAPE NO.	353.0	354.0	355.0	356.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.41	0.01	1.67*	12.09	1.67*	12.09	1.67*	12.09
1000	1.95	-1.65	3.74	0.15	3.47	-0.13	3.74	0.15
900	1.96	-2.02	3.75	-0.23	3.74	-0.23	3.74	-0.23
800	1.97	-1.90	3.76	-0.11	3.76	-0.11	3.76	-0.11
700	1.95	-1.30	3.74	0.49	3.74	0.49	3.74	0.49
600	1.97	-0.5[illegible]	3.76	1.23	3.75	1.22	3.76	1.23
500	1.96*	3.02	3.75*	4.81	3.75*	4.81	3.76*	4.82
400	1.95	0.41	3.74	2.20	3.74	2.20	3.74	2.20
300	1.78	0.72	3.57	2.51	3.57	2.52	3.57	2.51
200	0.66	-2.23	2.45	-0.44	2.45	-0.44	2.45	-0.44
100	0.93	-1.96	2.71	-0.19	2.71	-0.19	2.71	-0.19
32	-3.33	-2.75	-1.54	-0.96	-1.54	-0.96	-1.54	-0.96
8	-4.33*	-4.78	-2.61*	-3.06	-2.60*	-3.05	-2.60*	-3.05

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	8.75	0.01	-0.51*	-9.25	-0.51*	-9.25	-0.51*	-9.25
1000	-0.58	-0.58	1.26	1.26	1.30	1.30	1.26	1.26
900	-0.56*	-1.63	1.28	0.21	1.28	0.21	1.28	0.21
800	-0.57*	-1.98	1.27	-0.14	1.27	-0.14	1.27	-0.14
700	-0.55*	-2.07	1.30	-0.22	1.30	-0.22	1.30	-0.22
600	-0.53*	-2.30	1.31	-0.45	1.31	-0.45	1.32	-0.45
500	-0.50*	-3.40	1.31	-1.59	1.30	-1.60	1.31	-1.59
400	-0.49*	-3.16	1.35	-1.31	1.35	-1.31	1.35	-1.31
300	-0.47*	-3.37	1.37	-1.52	1.37	-1.52	1.37	-1.52
200	-0.21*	-1.27	1.64	0.58	1.63	0.57	1.64	0.58
100	1.57*	2.63	3.42*	4.48	3.42*	4.48	3.42*	4.48
32	2.84	-1.32	4.69	0.53	4.69	0.53	4.69	0.53
8	2.49	-0.36	4.28	1.42	4.28	1.42	4.27	1.41

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	353.0		354.0		355.0		356.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.57	-0.53	22.58	-0.52	22.57	-0.53	22.58	-0.52
900	23.15	-0.85	23.15	-0.85	23.15	-0.85	23.15	-0.85
800	23.90	-1.00	23.90	-1.00	23.90	-1.00	23.89	-1.01
700	24.43	-1.07	24.43	-1.07	24.44	-1.06	24.43	-1.07
600	25.06	-1.04	25.07	-1.03	25.06	-1.04	25.06	-1.04
500	25.71	-1.09	25.72	-1.08	25.72	-1.08	25.71	-1.09
400	26.24	-0.96	26.25	-0.95	26.25	-0.95	26.25	-0.95
300	26.83	-0.97	26.83	-0.97	26.84	-0.96	26.82	-0.98
200	26.58	-0.42	26.59	-0.41	26.59	-0.41	26.58	-0.42
100	25.59	0.69	25.59	0.69	25.59	0.69	25.59	0.69
32	24.72	1.12	24.73	1.13	24.72	1.12	24.72	1.12
8	22.21	0.21	22.21	0.21	22.21	0.21	22.21	0.21
2	18.08	-2.82	18.10	-2.80	18.10	-2.80	18.10	-2.80
0	13.91	XXXX	13.94	XXXX	13.95	XXXX	13.94	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.74	-0.04	11.74	-0.04	11.73	-0.05	11.75	-0.03
900	12.17	0.04	12.16	0.03	12.16	0.03	12.17	0.04
800	12.64	0.01	12.64	0.01	12.64	0.01	12.65	0.02
700	13.75	0.67	13.74	0.66	13.74	0.66	13.75	0.67
600	13.56	0.18	13.56	0.18	13.55	0.17	13.56	0.18
500	14.03	0.26	14.03	0.26	14.02	0.25	14.03	0.26
400	14.61	0.52	14.60	0.51	14.59	0.50	14.61	0.52
300	15.02	0.52	15.02	0.52	15.02	0.52	15.02	0.52
200	15.54	2.46	15.54	2.46	15.54	2.46	15.55	2.47
100	15.79	5.81	15.79	5.81	15.77	5.79	15.79	5.81
32	14.62	7.91	14.63	7.92	14.63	7.92	14.63	7.92
8	13.72	7.05	13.73	7.06	13.73	7.06	13.73	7.06
2	14.60	14.60	14.60	14.60	14.60	14.60	14.60	14.60
0	15.49	XXXX	15.49	XXXX	15.48	XXXX	15.48	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	353.0		354.0		355.0		356.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	15.23	-3.77	15.23	-3.77	15.23	-3.77	15.23	-3.77
-0.125	25.02	1.41	25.02	1.41	25.02	1.41	25.02	1.41
-0.250	25.93	1.99	25.93	1.99	25.94	2.00	25.93	1.99
-0.500	24.14	1.92	24.14	1.92	24.14	1.92	24.14	1.92
-1.000	20.74	1.74	20.75	1.75	20.75	1.75	20.75	1.75
-2.000	20.61	1.83	20.62	1.84	20.62	1.84	20.62	1.84

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	5.01	2.11	5.02	2.12	5.02	2.12	5.02	2.12
2	2.52	0.82	2.52	0.82	2.52	0.82	2.52	0.82

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.28	0.38	1.28	0.38	1.28	0.38	1.28	0.38
R(N)	-0.59	XXXX	-0.59	XXXX	-0.60	XXXX	-0.59	XXXX
Q(C,0)	-0.37	XXXX	-0.40	XXXX	-0.40	XXXX	-0.40	XXXX
Q(E,0)	0.16	XXXX	0.17	XXXX	0.17	XXXX	0.17	XXXX
Q(S,0)	-0.37	XXXX	-0.36	XXXX	-0.36	XXXX	-0.36	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.68	XXXX	0.74	XXXX	0.72	XXXX	0.74	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.0	XXXX	0.10	XXXX	0.20	XXXX	0.20	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SC/SEC)	744	729	754	10699
TAPE NO.	357.0	358.0	359.0	360.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	1.67*	12.09	1.67*	12.09	1.67*	12.09	-10.40	0.02
1000	3.74	0.15	3.47	-0.13	3.74	0.15	1.94	-1.65
900	3.75	-0.23	3.74	-0.23	3.74	-0.23	1.92	-2.06
800	3.76	-0.11	3.76	-0.11	3.76	-0.11	1.85	-2.02
700	3.74	0.49	3.74	0.49	3.74	0.49	1.73	-1.53
600	3.76	1.23	3.76	1.23	3.75	1.22	1.58	-0.95
500	3.75*	4.81	3.75*	4.81	3.75*	4.81	1.42*	2.48
400	3.70	2.16	3.70	2.16	3.70	2.16	1.24	-0.30
300	3.45	2.39	3.45	2.40	3.45	2.40	1.06	0.0
200	2.61	-0.28	2.62	-0.28	2.61	-0.28	0.85	-2.05
100	2.30	-0.60	2.30	-0.60	2.30	-0.60	0.62	-2.28
32	-0.96	-0.38	-0.96	-0.38	-0.96	-0.38	0.40*	0.98
8	-1.80*	-2.25	-1.81*	-2.26	-1.80*	-2.25	0.27	-0.18

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-0.51*	-9.25	-0.51*	-9.25	-0.51*	-9.25	8.79	0.05
1000	1.26	1.26	1.30	1.30	1.25	1.25	-0.58	-0.58
900	1.28	0.21	1.27	0.20	1.28	0.21	-0.54*	-1.61
800	1.27	-0.14	1.27	-0.14	1.27	-0.14	-0.49*	-1.90
700	1.30	-0.22	1.29	-0.23	1.30	-0.22	-0.41*	-1.93
600	1.31	-0.45	1.31	-0.45	1.31	-0.45	-0.32*	-2.09
500	1.31	-1.59	1.31	-1.59	1.31	-1.59	-0.22*	-3.12
400	1.36	-1.31	1.35	-1.31	1.35	-1.31	-0.13*	-2.79
300	1.42	-1.48	1.42	-1.48	1.42	-1.48	-0.03*	-2.93
200	1.80	0.74	1.79	0.73	1.80	0.74	0.03	-1.03
100	3.31*	4.37	3.31*	4.37	3.30*	4.36	0.08*	1.14
32	4.39	0.23	4.39	0.23	4.39	0.23	0.06	-4.10
8	4.03	1.18	4.03	1.18	4.04	1.18	0.03	-2.83

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	357.0		358.0		359.0		360.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	22.58	-0.52	22.58	-0.52	22.58	-0.52	23.06	-0.04
900	23.18	-0.82	23.19	-0.81	23.18	-0.82	24.01	0.01
800	23.92	-0.98	23.91	-0.99	23.91	-0.99	24.51	-0.39
700	24.48	-1.02	24.48	-1.02	24.48	-1.02	24.81	-0.69
600	25.09	-1.01	25.10	-1.00	25.10	-1.00	24.98	-1.12
500	25.71	-1.09	25.72	-1.08	25.72	-1.08	25.07	-1.73
400	26.24	-0.96	26.25	-0.95	26.24	-0.96	25.06	-2.14
300	26.66	-1.14	26.66	-1.14	26.66	-1.14	24.99	-2.81
200	26.46	-0.54	26.47	-0.53	26.47	-0.53	24.80	-2.20
100	25.63	0.73	25.63	0.73	25.63	0.73	24.44	-0.46
32	24.50	0.90	24.50	0.90	24.49	0.89	23.77	0.17
8	22.66	0.66	22.65	0.65	22.65	0.65	22.99	0.99
2	19.55	-1.35	19.53	-1.37	19.55	-1.35	21.21	0.31
0	16.40	XXXX	16.36	XXXX	16.41	XXXX	19.42	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	11.75	-0.03	11.74	-0.04	11.74	-0.04	12.03	0.25
900	12.19	0.06	12.19	0.06	12.19	0.06	12.72	0.59
800	12.72	0.09	12.72	0.09	12.72	0.09	13.17	0.54
700	13.62	0.54	13.62	0.54	13.61	0.53	13.56	0.48
600	13.66	0.28	13.65	0.27	13.65	0.27	13.86	0.48
500	14.07	0.30	14.07	0.30	14.06	0.29	14.18	0.41
400	14.57	0.48	14.56	0.47	14.56	0.47	14.46	0.37
300	15.03	0.53	15.02	0.52	15.02	0.52	14.77	0.27
200	15.45	2.37	15.44	2.36	15.44	2.36	15.04	1.96
100	15.61	5.63	15.59	5.61	15.59	5.61	15.42	5.44
32	14.85	8.14	14.84	8.13	14.84	8.13	15.78	9.07
8	14.71	8.04	14.71	8.04	14.71	8.04	16.13	9.46
2	16.30	16.30	16.28	16.28	16.30	16.30	16.80	16.80
0	17.91	XXXX	17.87	XXXX	17.91	XXXX	17.48	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	357.0		358.0		359.0		360.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	19.52	0.52	19.51	0.51	19.52	0.52	21.53	2.53
-0.125	25.38	1.77	25.38	1.77	25.38	1.77	25.53	1.92
-0.250	25.94	2.00	25.94	2.00	25.94	2.00	25.94	2.00
-0.500	24.14	1.92	24.14	1.92	24.14	1.92	24.16	1.94
-1.000	20.75	1.75	20.75	1.75	20.75	1.75	20.75	1.75
-2.000	25.89	7.11	25.89	7.11	25.89	7.11	25.90	7.12

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	4.43	1.53	4.44	1.54	4.43	1.53	0.33	-2.57
2	2.23	0.53	2.23	0.53	2.23	0.53	0.17	-1.53

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(D)	1.28	0.38	1.25	0.35	1.28	0.38	1.26	0.36
R(N)	-0.88	XXXX	-0.88	XXXX	-0.87	XXXX	-1.26	XXXX
Q(C,0)	-0.32	XXXX	-0.31	XXXX	-0.32	XXXX	-2.69	XXXX
Q(E,0)	0.34	XXXX	0.32	XXXX	0.34	XXXX	2.05	XXXX
Q(S,0)	-0.89	XXXX	-0.89	XXXX	-0.89	XXXX	-0.60	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.70	XXXX	0.66	XXXX	0.68	XXXX	0.74	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	0.30	XXXX	0.20	XXXX	0.20	XXXX	1.30	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10694	10694	10699	10699
TAPE NO.	361.0	362.0	363.0	364.0
INTERVAL	1HR	1HR	1HR	1HR

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.40	0.02	-10.40	0.02	-10.40	0.02	-10.40	0.02
1000	0.95	-2.65	1.95	-1.65	1.95	-1.65	0.93	-2.67
900	1.83	-2.1.	1.92	-2.06	1.92	-2.06	1.81	-2.17
800	1.87	-2.00	1.84	-2.03	1.85	-2.02	1.82	-2.05
700	1.69	-1.57	1.73	-1.52	1.73	-1.53	1.72	-1.54
600	1.57	-0.96	1.59	-0.94	1.59	-0.94	1.58	-0.95
500	1.41*	2.47	1.42*	2.48	1.42*	2.48	1.42*	2.48
400	1.24	-0.30	1.24	-0.30	1.25	-0.29	1.24	-0.30
300	1.06	0.0	1.06	0.0	1.06	0.0	1.06	0.01
200	0.85	-2.05	0.85	-2.05	0.85	-2.05	0.85	-2.05
100	0.62	-2.28	0.63	-2.27	0.63	-2.27	0.62	-2.28
32	0.40*	0.98	0.40*	0.98	0.40*	0.98	0.40*	0.98
8	0.27	-0.18	0.27	-0.18	0.27	-0.18	0.28	-0.17

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	0.31	-8.42	8.74	0.00	8.74	0.00	8.74	0.00
1000	0.22	0.22	-0.58	-0.58	-0.58	-0.58	-0.46	-0.46
900	0.12	-0.95	-0.54*	-1.61	-0.54*	-1.61	-0.52*	-1.59
800	0.03	-1.37	-0.49*	-1.90	-0.49*	-1.90	-0.48*	-1.89
700	-0.03*	-1.55	-0.40*	-1.92	-0.42*	-1.94	-0.41*	-1.93
600	-8.74*	-10.51	-0.32*	-2.09	-0.30*	-2.07	-0.32*	-2.09
500	0.46	-2 44	-0.22*	-3.12	-0.21*	-3.11	-0.22*	-3.12
400	0.52	-2.14	-0.13*	-2.79	-0.11*	-2.78	-0.13*	-2.79
300	0.48	-2.41	-0.03*	-2.93	-0.02*	-2.92	-0.03*	-2.93
200	0.40	-0.65	0.03	-1.03	0.04	-1.02	0.03	-1.03
100	0.08*	1.14	0.08*	1.14	0.09*	1.15	0.08*	1.14
32	0.06	-4.10	0.06	-4.09	0.08	-4.07	0.06	-4.10
8	0.03	-2.83	0.03	-2.83	-0.01*	-2.87	0.03	-2.83

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	361.0		362.0		363.0		364.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	23.05	-0.05	23.06	-0.04	23.01	-0.09	23.03	-0.07
900	24.01	0.01	24.01	0.01	24.53	0.53	24.58	0.58
800	24.52	-0.38	24.51	-0.39	24.43	-0.47	24.45	-0.45
700	24.81	-0.69	24.81	-0.69	25.19	-0.31	25.22	-0.28
600	24.98	-1.12	24.97	-1.13	24.93	-1.17	24.94	-1.16
500	25.07	-1.73	25.06	-1.74	25.38	-1.42	25.41	-1.39
400	25.06	-2.14	25.05	-2.15	24.93	-2.27	24.95	-2.25
300	24.97	-2.83	24.99	-2.81	24.86	-2.94	24.87	-2.93
200	24.79	-2.21	24.78	-2.22	24.62	-2.38	24.62	-2.38
100	24.43	-0.47	24.43	-0.47	24.18	-0.72	24.19	-0.71
32	23.75	0.15	23.74	0.14	23.11	-0.49	23.09	-0.51
8	22.95	0.95	22.94	0.94	22.53	0.53	22.54	0.54
2	21.18	0.28	21.17	0.27	20.41	-0.49	20.41	-0.49
0	19.41	XXXX	19.40	XXXX	18.28	XXXX	18.28	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.04	0.26	12.04	0.26	12.05	0.27	12.04	0.26
900	12.74	0.61	12.73	0.60	12.73	0.60	12.73	0.60
800	13.18	0.55	13.18	0.55	13.18	0.55	13.17	0.54
700	13.56	0.48	13.56	0.48	13.55	0.47	13.55	0.47
600	13.87	0.49	13.87	0.49	13.86	0.48	13.86	0.48
500	14.19	0.42	14.21	0.44	14.17	0.40	14.16	0.39
400	14.47	0.38	14.47	0.38	14.43	0.34	14.43	0.34
300	14.77	0.27	14.79	0.29	14.72	0.22	14.73	0.23
200	15.05	1.97	15.05	1.97	14.98	1.90	14.98	1.90
100	15.43	5.45	15.43	5.45	15.33	5.35	15.34	5.36
32	15.80	9.09	15.80	9.09	15.65	8.94	15.65	8.94
8	16.15	9.48	16.16	9.49	15.94	9.27	15.94	9.27
2	16.81	16.81	16.81	16.81	16.47	16.47	16.47	16.47
0	17.47	XXXX	17.47	XXXX	17.01	XXXX	17.01	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	361.0		362.0		363.0		364.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	21.51	2.51	21.52	2.52	16.69	-2.31	16.70	-2.30
-0.125	25.54	1.93	25.53	1.92	25.06	1.45	25.05	1.44
-0.250	25.95	2.01	25.95	2.01	26.14	2.20	26.15	2.21
-0.500	24.16	1.94	24.16	1.94	24.14	1.92	24.14	1.92
-1.000	20.75	1.75	20.75	1.75	20.92	1.92	20.94	1.94
-2.000	25.90	7.12	25.90	7.12	20.61	1.83	20.61	1.83

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	0.34	-2.56	0.34	-2.56	0.34	-2.56	0.34	-2.56
2	0.17	-1.53	0.17	-1.53	0.17	-1.53	0.17	-1.53

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.27	0.37	1.28	0.38	1.26	0.36	1.25	0.35
R(N)	-1.25	XXXX	-1.25	XXXX	-1.15	XXXX	-1.15	XXXX
Q(C,0)	-2.69	XXXX	-2.68	XXXX	-3.26	XXXX	-3.25	XXXX
Q(E,0)	2.05	XXXX	2.04	XXXX	1.66	XXXX	1.67	XXXX
Q(S,0)	-0.60	XXXX	-0.60	XXXX	0.46	XXXX	0.46	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.74	XXXX	0.74	XXXX	0.74	XXXX	0.74	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.40	XXXX	1.30	XXXX	1.10	XXXX	1.10	XXXX

CASE DPG 4 GPAC OUTPUT DATA

VELOCITY COMPONENTS

K(CM SQ/SEC)	10694		10694		10694		10694	
TAPE NO.	365.0		366.0		367.0		368.0	
INTERVAL	1HR		1HR		1HR		1HR	

U COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	-10.40	0.02	1.67*	12.09	1.66*	12.08	1.67*	12.09
1000	1.94	-1.65	3.74	0.14	3.51	-0.09	3.74	0.14
900	1.92	-2.06	3.71	-0.27	3.68	-0.30	3.71	-0.27
800	1.84	-2.03	3.63	-0.24	3.63	-0.24	3.63	-0.24
700	1.73	-1.53	3.51	0.26	3.51	0.26	3.51	0.26
600	1.58	-0.95	3.37	0.85	3.37	0.85	3.37	0.84
500	1.42*	2.48	3.21*	4.27	3.21*	4.27	3.21*	4.27
400	1.24	-0.30	3.02	1.48	3.02	1.48	3.02	1.48
300	1.06	0.0	2.82	1.77	2.82	1.77	2.82	1.77
200	0.85	-2.05	2.59	-0.31	2.59	-0.31	2.59	-0.31
100	0.63	-2.27	2.30	-0.60	2.30	-0.60	2.30	-0.60
32	0.40*	0.98	1.93*	2.51	1.93*	2.51	1.93*	2.51
8	0.27	-0.18	1.56	1.11	1.56	1.11	1.56	1.11

V COMPONENT (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
GEO	8.74	0.00	-0.51*	-9.25	-0.51*	-9.25	-0.51*	-9.25
1000	-0.58	-0.58	1.26	1.26	1.30	1.30	1.26	1.26
900	-0.54*	-1.61	1.30	0.23	1.31	0.24	1.30	0.23
800	-0.49*	-1.90	1.35	-0.06	1.36	-0.05	1.35	-0.06
700	-0.41*	-1.93	1.44	-0.07	1.44	-0.08	1.44	-0.07
600	-0.32*	-2.09	1.53	-0.24	1.53	-0.23	1.53	-0.24
500	-0.22*	-3.12	1.62	-1.28	1.62	-1.28	1.62	-1.27
400	-0.12*	-2.79	1.74	-0.92	1.71	-0.95	1.71	-0.96
300	-0.03*	-2.93	1.79	-1.11	1.79	-1.11	1.79	-1.11
200	0.03	-1.02	1.84	0.78	1.84	0.78	1.84	0.78
100	0.08*	1.14	1.83*	2.89	1.83*	2.89	1.83*	2.89
32	0.05	-4.10	1.67	-2.49	1.67	-2.49	1.67	-2.49
8	0.03	-2.83	1.38	-1.48	1.39	-1.47	1.38	-1.48

CASE DPG 4 GPAC OUTPUT DATA

AIR TEMPERATURE AND VAPOR PRESSURE

TAPE NO.	365.0		366.0		367.0		368.0	
INTERVAL	1HR		1HR		1HR		1HR	

AIR TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	23.01	-0.09	23.05	-0.05	23.06	-0.04	23.06	-0.04
900	24.56	0.56	24.02	0.02	24.00	0.0	24.02	0.02
800	24.43	-0.47	24.51	-0.39	24.51	-0.39	24.50	-0.40
700	25.23	-0.27	24.79	-0.71	24.80	-0.70	24.79	-0.71
600	24.93	-1.17	24.93	-1.17	24.93	-1.17	24.93	-1.17
500	25.41	-1.39	25.00	-1.80	25.01	-1.79	25.00	-1.80
400	24.94	-2.26	24.96	-2.24	24.97	-2.23	24.97	-2.23
300	24.90	-2.90	24.85	-2.95	24.86	-2.94	24.85	-2.95
200	24.62	-2.38	24.61	-2.39	24.62	-2.38	24.62	-2.38
100	24.19	-0.71	24.17	-0.73	24.17	-0.73	24.18	-0.72
32	23.08	-0.52	23.31	-0.29	23.32	-0.28	23.32	-0.28
8	22.54	0.54	22.40	0.40	22.40	0.40	22.41	0.41
2	20.41	-0.49	20.31	-0.59	20.31	-0.59	20.32	-0.58
0	18.27	XXXX	18.18	XXXX	18.18	XXXX	18.18	XXXX

VAPOR PRESSURE (MB)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
1000	12.03	0.25	12.04	0.26	12.04	0.26	12.04	0.26
900	12.72	0.59	12.74	0.61	12.74	0.61	12.72	0.59
800	13.16	0.53	13.17	0.54	13.17	0.54	13.17	0.54
700	13.54	0.46	13.56	0.48	13.55	0.47	13.55	0.47
600	13.86	0.48	13.85	0.47	13.86	0.48	13.85	0.47
500	14.17	0.40	14.18	0.41	14.17	0.40	14.17	0.40
400	14.43	0.34	14.43	0.34	14.43	0.34	14.43	0.34
300	14.72	0.22	14.72	0.22	14.72	0.22	14.[illegible]	0.22
200	14.97	1.89	14.98	1.90	14.98	1.90	14.98	1.90
100	15.33	5.35	15.33	5.35	15.33	5.35	15.33	5.35
32	15.65	8.94	15.65	8.94	15.65	8.94	15.64	8.93
8	15.94	9.27	15.94	9.27	15.94	9.27	15.93	9.26
2	16.47	16.47	16.45	16.45	16.45	16.45	16.44	16.44
0	17.01	XXXX	16.98	XXXX	16.97	XXXX	16.97	XXXX

CASE DPG 4 GPAC OUTPUT DATA

MISCELLANEOUS VARIABLES

TAPE NO.	365.0		366.0		367.0		368.0	
INTERVAL	1HR		1HR		1HR		1HR	

SOIL TEMPERATURE (DEG C)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
-0.0	16.69	-2.31	16.63	-2.37	16.63	-2.37	16.62	-2.38
-0.125	25.05	1.44	25.08	1.47	25.08	1.47	25.08	1.47
-0.250	26.14	2.20	25.93	1.99	25.93	1.99	25.93	1.99
-0.500	24.13	1.91	24.15	1.93	24.14	1.92	24.14	1.92
-1.000	20.94	1.94	20.74	1.74	20.74	1.74	20.74	1.74
-2.000	20.62	1.84	20.62	1.84	20.62	1.84	20.61	1.83

WIND SPEED (M/SEC)

LEVEL(M)	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
8	0.34	-2.56	2.08	-0.82	2.09	-0.81	2.09	-0.81
2	0.17	-1.53	1.05	-0.65	1.06	-0.64	1.06	-0.64

SURFACE ENERGY TERMS (LY/SEC)X1000

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
S(0)	1.29	0.39	1.27	0.37	1.28	0.38	1.28	0.38
R(N)	-1.13	XXXX	-1.14	XXXX	-1.14	XXXX	-1.14	XXXX
Q(C,0)	-3.26	XXXX	-3.19	XXXX	-3.20	XXXX	-3.20	XXXX
Q(E,0)	1.67	XXXX	1.62	XXXX	1.62	XXXX	1.62	XXXX
Q(S,0)	0.46	XXXX	0.45	XXXX	0.45	XXXX	-0.45	XXXX

SURFACE SHEAR STRESS (DYNES/CM SQ)X10

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
TAU	0.72	XXXX	4.72	XXXX	4.70	XXXX	4.70	XXXX

INTEGRATED EVAPOTRANSPIRATION (GM/CM SQ)X100

PARAMETER	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF	GPAC	DIFF
E	1.20	XXXX	1.10	XXXX	1.10	XXXX	1.00	XXXX

II. Assessment of the Solutions and Initial Data Collection Activities.

The four sets of data which were collected at Dugway have been used as initial input values for the set of equations presently simulating the lower 1000 m of the atmosphere. These equations have been solved under various assumptions in order to assess the importance of the various terms in the system of equations. The diverse solutions that have been obtained have been herein referred to by tape numbers; therefore, each tape represents the solutions under a different set of assumptions. The primary purpose of running the various tapes under these assumptions is to compare the results obtained by various circuits in the model and their importance in the set of equations.

Previously, the only initial data available for study was that data collected in the Dallas Tower Network at Cedar Hill, Texas. This data utilized Stations A and B and data taken from a 500 m tower which was instrumented by the University of Texas. Eleven test cases were selected from these data and solutions were obtained under a number of simplifying assumptions. A rather extensive set of solutions for these input conditions was obtained in 1966. As a result of this study, additional insight was gained into the importance of various terms in the equations and some of the difficulties involved in the present solution. A number of important inferences resulted. First, the solutions indicated that a number of variables in the equations were scaled improperly

on the GPAC. This problem was easily alleviated by simply rescaling the pertinent variables; however, a major limitation in the LLMM was made manifest in the form of the exchange coefficient relationship at 8 m. Solutions obtained from the four data sets collected at Dugway Proving Ground further substantiate these conclusions. These solutions indicate a lack of adequate scaling in the stresses, the convective heat flux, and the evaporative heat flux in the lowest 200 m of the atmosphere. In addition, difficulties were encountered in the calculation of $K_{m,8}$. A major difficulty in this regard was the very small wind speed which occurred at times at the 8 m level. This difficulty no doubt is partly due to the inadequacy of the forecast values for the surface contour gradients, since the gradient in this particular was ill-defined both in magnitude and direction. Occasionally, a wind speed at the 8 m level is too low to place the GPAC in RESET mode. In other cases, the GPAC initially may be put into RESET but after the solution begins the wind speed decreases rapidly and attempts to pass through zero. This decreased wind speed causes the amplifiers in the $K_{m,8}$ computing loop to go into overload and compute improperly.

Perusal of the tape log indicates a number of tapes which were not run. Many of these were due to inadequate scaling in the problem. In order to run these, the fluxes of convective and evaporative heat will have to be rescaled in the lowest 200 m. Overloading of amplifiers in the $K_{m,8}$ computing loop was mainly encountered with Data Set DPG03 for which numerous tapes do not appear in the tape log.

In this case, merely rescaling is not an adequate solution to the problem but a redefinition of the $K_{m,8}$ variables is necessary. On the surface, at least, the adoption of the modified Deacon profile appears to be the most likely solution for an adequate expression of the momentum exchange coefficient at 8 m. A supplementary patchboard for the GPAC has been wired for Console 3 which will contain the $K_{m,8}$ expression obtained from the modified Deacon wind profile. In some instances, solution runs have been omitted from the report in order to maintain a standard format of four solutions per page. In other words, in a particular case, all tape numbers in excess of the largest number divisible by 4 were not included in the report. If the number of tapes were exactly divisible by 4, then all the tapes were included.

Emphasis must be placed on the fact that the difference between the GPAC solutions and observed values shall not necessarily be considered as the main criteria for the quality of the system of equations whether differences obtained are large or small. The values of the winds, temperatures, and vapor pressures observed at Dugway certainly should be treated as the standard comparison; however, there are many other considerations involved in obtaining a set of solutions. What is most important at this point is the differences obtained between various assumptions under which the system of equations have been solved for the same solution intervals, since the main concern of the whole research effort is directed towards improving the meteorological relationships employed for

simulating the lower atmosphere. Of course, refinement of the equation system is guided by the differences obtained between the GPAC solutions and the observed values, but the matter of obtaining portions of the input data must be born in mind. For example, the surface contour gradient obtained from synoptic surface charts is quite difficult to determine under conditions of very flat pressure gradients where the direction and magnitude of the pressure gradient is ill-defined. This observation in no way implies any inadequacy in the scale of the analyst or forecaster in determining pressure gradients, but only goes to point out the complexity of the pressure pattern in mountainous areas. Pressure gradients were determined from pressures reduced to main sea level which, necessarily, result in fictitious values of indicated pressures. This problem is an old one in meteorology but must be taken into consideration in practical simulation and testing programs. In mountainous areas, elevations of the observing station vary sharply so that the pressure comparisons between stations is extremely difficult. As a result of this variation, fictitious pressure patterns occur in synoptic analyses. Such a pressure field may indicate the pressure gradient to lie in a direction far removed from the true pressure gradient direction and its magnitude may be considerably larger than the magnitude of the true pressure gradient. One might suppose that the employment of altimeter settings in lieu of pressure values at mean sea level would present a truer picture of the pressure distribution; however, in practice compari-

sons made between pressure fields obtained from mean sea level pressure values and the pressure field obtained from altimeter settings indicates no large significant difference in the direction or magnitude of the pressure gradients.

In addition to the difficulties encountered in attempting to determine pressure gradient values from mean sea level values of station pressure, problems are encountered in assessing the input data to the GPAC. In particular the tower from which the low level winds, temperatures, and vapor pressures were obtained, that is, the value 32 m and below, were taken at a point approximately one mile from the base of a 7,000 foot mountain peak while the radiosonde observations were taken at a site approximately 15 miles east of the tower in a relatively flat area on the opposite side of the valley. Since mountain and valley breezes normally predominate in this area, it is most likely that the ground based tower and the radiosonde observations may have been taken in entirely different wind-flow regimes. In either case, the wind flow in these areas was associated with the immediate surrounding terrain which consisted of mountain peaks and ridges having different orientations and different slopes relative to the two locations. In order to obtain input data for solution on the GPAC, the data from this tower and the radiosonde data were combined as though they were taken at one particular location; however, the acceptance of data from the ground based tower to be used as initial input for the GPAC solution was based not necessarily

on the testing of the model itself but was based on the idea of testing the entire system of data collection, and processing of he digital program which converts the data into GPAC form.

This initial collection of data served not only for model evaluation but also provided GCA Corporation an opportunity to test out their data collecting and assimilating data reduction facility. This was the first opportunity that GCA Corporation had had to test their data reduction system under operational conditions. This period has been employed mainly for the setting up of proper procedures for collection of data at Dugway, for processing of this data, and for coding and transmitting the data to Texas A&M. In addition, it has provided an opportunity for project personnel to test the F2 digital program for proper analysis of input data on an operational basis. A few minor inadequacies discovered in the F2 digital program were eliminated during the processing pc iod and corrected and the data reprocessed before being put on the GPAC for solution.

III. Engineering Modifications for the GPAC

Engineering modifications for the GPAC have been mainly devoted to the maintenance activities. In this regard, all relay sockets throughout the entire four consoles normally used for solution of the LLMM including those relay sockets in the integrated control units and behind the panel containing the potentiometers were inspected and numerous bent relay socket pins were located and replaced. Since these pins transmit signal voltages, pc .

contact resistance may introduce extraneous noise into the problem system being studied, or poor pin contact may prevent the passage of proper signals through the relay. Because of the large volume of pins involved, this process was quite tedious and time consuming.

A complete check was made of the servo multipliers and servo resolvers. This check indicated that a complete overhaul of the computing potentiometers in these units was required. Various repairs were required. Worn bearings were replaced. Some gear trains were binding slightly and had to be either adjusted or replaced. Many of the wiper arms on the potentiometers were very badly worn and were introducing extraneous noises into problem solutions. A number of new potentiometers were obtained from Hybrid Systems, Inc. to replace the malfunctioning potentiometers. In addition, wiper arms were bought for those potentiometers for which the winding was still in good condition. In these cases, the wiper arms only were changed on the potentiometers and they were completely cleaned and lubricated.

Difficulty was encountered with the electronic quarter square multipliers obtained from Hybrid Systems, Inc. The basic nature of the difficulty encountered was that the multipliers would not maintain their required specifications for any sustained period of time. In order to rectify this difficulty, all of the multipliers and their associated amplifiers were returned to Hybrid Systems, Inc. and checked and properly adjusted on their test bench. As suspected, approximately 75% of the components of

these multipliers were outside their specifications.

Approximately fifteen amplifier balancing potentiometers were replaced for the individual amplifiers in the four consoles. In addition, the failure alarm for the oven which contains integrator capacitors on Console 5 was discovered to be inoperative. This was determined to be due to improper wiring in the alarm circuits so corrective wiring was installed. No further progress has been made on the computer component test jig since we are awaiting the arrival of precision parts required for the completion of this unit.

Work continues on the modification of the basic amplifiers used in the computer seeking to avoid some of the problems known to be associated with the basic amplifier now in use. Specifically, these problems consist of high noise levels on the outputs of these amplifiers with zero input voltage when the amplifiers are being used in the summer mode. Three cycle oscillation is frequently encountered with these amplifiers and large spikes exist on output of the chopper amplifier. Four chassis, which contain 8 amplifiers, have been modified and are awaiting testing. If tests indicate that this is a good amplifier design then the other amplifiers in the consoles will be converted to this configuration on a time available basis rather than as a crash program since the amplifiers now in use function satisfactorily under most conditions.

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author) Texas A & M Research Foundation College Station, Texas 77843	2a. REPORT SECURITY CLASSIFICATION 2b. GROUP

3. REPORT TITLE

Simulation Research to Develop Objective Meteorological Prediction Capability

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Third Semi-Annual Report for 15 May 1969 to 16 November 1969

5. AUTHOR(S) (First name, middle initial, last name)

William H. Clayton, Tom E. Sanford

6. REPORT DATE December 1969	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
8a. CONTRACT OR GRANT NO. DAAB07-68-C-0280 b. PROJECT NO. DA No. 1T0.6211.A126.05 c. Project 582 d.	9a. ORIGINATOR'S REPORT NUMBER(S) Reference 68-25-T 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) ECOM-0280-3	

10. DISTRIBUTION STATEMENT This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of CG, U. S. Army Electronics Command, Fort Monmouth, New Jersey ATTN: AMSEL-BL-FM-T

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY U. S. Army Electronics Command Fort Monmouth, New Jersey 07703 AMSEL-BL-FM-T

13. ABSTRACT

In order to assess further the system of equations currently employed for simulating the atmospheric friction layer, four sets of data, each 12 hours in length, were collected on successive days in August 1969 at Dugway Proving Ground, Utah. Solutions of the equation system for these initial conditions as well as comparisons of the solutions with observed data are contained in this report. The results derived from these solutions corroborate those obtained from the solutions of eleven test cases assembled from data collected with the Dallas Tower Network.

DD FORM 1 NOV 68 1473 (PAGE 1)

S/N 0101-807-6801

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
1. Meteorology						
2. Meteorological Simulator						
3. Dept. of the Army Contract No. DAAB07-68-C-0280						